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RESULTS
OF
MERIDIAN OBSERVATIONS,
MADE AT THE
ROYAL OBSERVATORY, CAPE OF GOOD HOPE,
DURING THE YEARS
1861, 1862, 1863, 1864 and 1865,

UNDER THE DIRECTION OF
SIR THOMAS MACLEAR, KT., F.R.S., &c.
HER MAJESTY'S ASTRONOMER AT THE CAPE.

REDUCED AND PRINTED UNDER THE DIRECTION OF
DAVID GILL, C.B., LL.D., F.R.S., Hon. F.R.S.Ed., &c.,
HER MAJESTY'S ASTRONOMER AT THE CAPE.

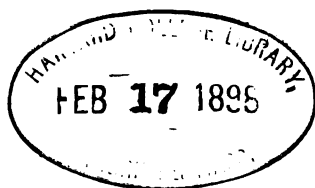
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INTRODUCTION

TO THE

MERIDIAN OBSERVATIONS,

1861 TO 1865.

In October 1870 Mr. Edward James Stone, M.A., F.R.S., succeeded Sir Thomas Maclear as Her Majesty's Astronomer at the Cape of Good Hope.

With his characteristic energy Mr. Stone applied himself to the double task of creating a General Catalogue of Southern Stars to the 7th Magnitude, and of completing, as far as lay within his power, the reduction and publication of the large mass of Meridian Observations which had accumulated under the direction of his predecessor between the years 1834 and 1870.

From 1834 to 1855 the Meridian Observations were made with the Transit-Instrument and Mural Circles. In 1855 a new Transit-Circle, on the model of the Greenwich instrument, was erected; it was brought into use in 1856, and continuous observations were made with it during the years 1856, 1857, 1858, 1859 and 1860. As these latter observations were unquestionably the most accurate and important series which, till then, had been made in the Southern Hemisphere, Mr. Stone first directed his attention to completing their reduction. The reductions had, in general, been carried to apparent place under the direction of Sir Thomas Maclear; the reduction to mean place and the formation of annual and general catalogues remained to be done.

The results for the year 1856 were published by Mr. Stone in 1871, for the years 1857 and 1858 in 1872, and those for 1859 and 1860 in 1874. The General Catalogue of 1159 Stars, derived from all these observations, and reduced to the Equinox 1860, was published in the year 1873.

In the intervals of his other labours, Mr. Stone next devoted his attention to the examination and publication of the results of

observations with the Transit-Instrument and Mural-Circles, made in the years 1834 to 1840, and in the year 1878 he published the Cape Catalogue of 2892 Stars based on these observations, reduced to the Equinox 1840.

In 1841 Maclear had commenced the field-work of his "Verification and Extension of Lacaille's Arc of the Meridian," and, till the termination of that work in 1848, the meridian work of the observatory was necessarily limited in extent, being chiefly confined to the determination of time, and to observations of stars with the Zenith-Sector in connection with the Geodetic operations.

Maclear's immediate object in the arrangement of the observations from 1849 was to observe all stars of the *British Association Catalogue* South of the Equator, and a great deal of time was spent in endeavours to reconcile the observations of Lacaille and others with the results obtained at the Cape. Many interesting discussions connected with these researches are printed in the *Memoirs of the Royal Astronomical Society*, Vol. XX. Apart from these discussions and the determination of the places of comet-comparison stars, the reduction of the observations 1849 to 1855 was in a very incomplete state, until taken up by Mr. Stone; and, when he retired from the Cape in 1879, half of the work was done.

Mr. Stone's crowning work was his great General Catalogue of 12,441 Stars for the Equinox 1880, published in 1881, based on the Meridian Observations made under his direction at the Cape during the years 1870 to 1879.

On taking up the Direction of the Observatory in June 1879, my attention was turned in the first place to the unfinished work of 1849-52. I found that about half of the reductions to mean place had been made under the direction of Mr. Stone. It was a comparatively small matter to complete this part of the work; but the revision of the whole, the comparison with other catalogues, and the scrutiny of doubtful observations, required much time and patience. The results were finally embodied in the Cape Catalogue of 4810 Stars for the Equinox 1850, published in the year 1884.

In the years 1853, 1854 and 1855 regular observing was suspended, the efforts of the staff being probably directed chiefly to the computations connected with the Arc of Meridian, and to preparations for erection of the new Transit-Circle. Observations of a few stars for clock-error, and of a few comet-comparison stars (whose places are published elsewhere) constituted the principal

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part of the work during that period. There remain, therefore, for reduction and publication, only the observations made with the Transit-Circle between the periods covered by the Cape General Catalogue for 1860 and the Cape General Catalogue for 1880, *viz.*, the observations made in the years 1861-70. The present volume contains the results of Meridian Observations made in the years 1861-65 inclusive, the Observations 1866 to 1870 are in course of reduction and will soon be ready for press. It is then intended to combine the whole 10-year series in a Cape General Catalogue for the Equinox 1865.

The Transit-Circle was constructed upon Sir George Airy's plans by Messrs. Ransomes & Sims, as engineers, and Messrs. Troughton & Simms, as opticians. It is similar in construction and power to the Transit-Circle of the Royal Observatory, Greenwich. An elaborate description, with plans, of the Greenwich instrument is given in the volumes of "Greenwich Observations" 1852 and 1867; this renders any detailed description of the Cape instrument unnecessary. The only points of difference are—that the setting-circle and the handles for moving the instrument are removed from connection with the graduated circle to the opposite side of the instrument, and that the central cube is pierced to allow adjustment of the collimating telescopes upon each other, without obstruction, and without the necessity for raising the Transit-Circle. The magnifying power used was 200 diameters.

The observations in Right Ascension were made by Eye and Ear till 1862 March 14, and from that date to the end of 1865 by Chronograph.

The Errors of Collimation were determined by Gauss's method, with two horizontal telescopes of 4 inches aperture—the results, including the correction for diurnal aberration, are given in Table I., pp. 2 and 3.

The Level-Errors were determined by observing, with a Bohnenberger eye-piece, the coincidence of the central wire with its image formed after reflection from a pool of mercury. The separate results, together with the Adopted Level and Azimuth Errors, are given in Table II., pp. 4 to 19.

The results of the separate determinations of Azimuth are given in Table III., pp. 20 to 35.

When the completion of the reductions was undertaken I found that the observations for Right Ascension had all been entered in

viii *Introduction to Meridian Observations,*

the reduction forms, the means taken, reduced to the middle wire, and the corrections for Collimation, Level and Azimuth applied. This work had been systematically carried out and examined under the direction of Sir Thomas Maclear, and after some preliminary examination was finally adopted ; but from this point the observations were unreduced. The Clock-Errors were determined from observed transits of the following stars of the Nautical Almanac list.

The following corrections were employed to reduce the Nautical Almanac Right Ascension to those of Auwers' Fundamental Catalogue (*Publication der Astronomischen Gesellschaft, XIV.*), viz. :—

Star.	Correction.		Star.	Correction.	
	1860.	1870.		1860.	1870.
α Andromedæ	+0°080	+0°085	γ Orionis	+0°012	—0°001
γ Pegasi	+0°081	+0°083	μ Geminorum	+0°012	—0°005
12 Ceti	+0°005	+0°020	γ Geminorum	—0°014	—0°002
β Ceti	+0°135	+0°154	ϵ Canis Majoris	+0°006	—0°013
ϵ Piscium	+0°027	—0°019	γ Canis Majoris	—0°009	—0°040
θ Ceti	+0°116	+0°115	ζ Geminorum	—0°015	—0°041
η Piscium	+0°104	+0°103	α^2 Geminorum	—0°021	—0°047
ν Piscium	+0°075	+0°076	β Geminorum	+0°025	+0°021
β Arietis	+0°071	+0°080	6 Cancri	—0°083	—0°063
α Arietis	+0°056	+0°054	χ Geminorum		
67 Ceti	+0°106	+0°113	15 Argus	+0°011	—0°003
ξ^2 Ceti	+0°056	+0°055	η Cancri	+0°055	+0°060
γ Ceti	+0°092	+0°084	ϵ Hydræ	—0°012	—0°024
α Ceti	+0°104	+0°104	83 Cancri	+0°116	+0°145
δ Arietis	+0°038	+0°041	α Hydræ	+0°053	+0°055
η Tauri	+0°089	+0°087	ϵ Leonis	+0°022	+0°020
γ Eridani	+0°105	+0°108	π Leonis	+0°031	+0°018
σ Eridani	+0°055	+0°078	α Leonis	+0°022	+0°017
ϵ Tauri	+0°032	+0°055	ρ Leonis	+0°005	—0°009
α Tauri	+0°001	—0°008	l Leonis	+0°061	+0°073
ϵ Leporis	+0°107	+0°113	χ Leonis	+0°035	+0°021
β Orionis	+0°048	+0°046	δ Leonis	+0°012	—0°003
β Tauri	+0°038	+0°036	δ Hydræ	+0°070	+0°052
δ Orionis	—0°014	—0°038	ν Leonis	+0°008	+0°018
α Leporis	—0°003	—0°031	β Leonis	+0°058	+0°054
ϵ Orionis	+0°036	+0°027	ϵ Corvi	+0°045	+0°032
α Orionis	+0°020	+0°017	η Virginis	+0°071	+0°086

Star.	Correction.		Star.	Correction.	
	1860.	1870.		1860.	1870.
β Corvi	+0°172	+0°213	ζ Aquilæ	+0°182	+0°214
ι Canum Veneticum. +	°146	+°144	ω Aquilæ	+°083	+°094
θ Virginis	+°057	+°055	δ Aquilæ	+°104	+°110
α Virginis	+°073	+°073	λ Sagittarii	+°195	+°192
ζ Virginis	—°001	—°012	γ Aquilæ	+°101	+°101
η Boötis	+°041	+°026	α Aquilæ	+°080	+°081
τ Virginis	+°070	+°065	β Aquilæ	+°105	+°103
α Boötis	+°072	+°066	α^* Capricorni	+°127	+°131
ρ Boötis	+°002	—°005	ρ Capricorni	+°222	+°252
α Libræ	+°082	+°081	ζ Vulpeculæ	+°090	+°093
ψ Boötis	—°021	—°037	ζ Cygni	+°100	+°111
β Libræ	+°091	+°088	β Aquarii	+°120	+°113
α Coronæ	+°075	+°078	ϵ Pegasi	+°059	+°038
α Serpentis	+°099	+°103	ι Pegasi	+°051	+°042
β Scorpii	+°085	+°072	α Aquarii	+°106	+°107
δ Ophiuchi.....	+°099	+°101	θ Aquarii	+°089	+°089
α Scorpii	+°059	+°057	η Aquarii	+°076	+°091
ζ Herulis	+°046	+°031	ζ Pegasi	+°129	+°156
κ Ophiuchi.....	—°005	+°008	α Piscis Australis.....	+°098	+°098
α Herulis	+°102	+°103	α Pegasi	+°067	+°065
θ Ophiuchi.....	+°090	+°095	γ Piscium	+°039	+°057
α Ophiuchi	+°096	+°099	κ Piscium	+°020	+°015
μ Herulis	+°073	+°100	ι Piscium	+°037	+°015
μ Sagittarii	+°120	+°138	δ Sculptoris	+°034	+°044
β Lyræ	+°137	+°147	ω Piscium	+°017	+°003

The Right Ascensions of Clock-Stars have not been retained as determinations unless Clock-Error was obtained from at least five fundamental stars.

The various observers are denoted as follows :—

Observer.	Denoted by.	Observer.	Denoted by.
Sir Thomas Maclear	T.	Mr. Chas. D. Fisher.....	C.F.
Mr. Wm. Mann	W.	„ J. Sinfield	J.S.
„ G. W. H. Maclear	G.	„ Isaac Freeman	I.F.
„ Geo. Christie	C.	„ C. Blore	B.

The Personal Equations of the observers have not been discussed. The Clock-rates have been derived exclusively from successive time determinations by the same observer. The resulting Rates of the Clock Hardy are given in Table IV., pp. 36 to 43.

CIRCLE OBSERVATIONS.

The Circle is graduated from 5' to 5'. The pointer-reading is approximately 0° when the telescope is directed to the Zenith. The pointer-readings increase as the telescope is turned from the Zenith to the South. The pointer and microscopes for reading the Circle are mounted on the Western pier.

The value of one revolution of the Z.D. micrometer-screw was repeatedly determined by bisecting with the horizontal wire a speck of dust on one of the wires of the horizontal collimators at different readings of the Z.D. micrometer and of the microscopes of the vertical circle. The adopted values were

$$\begin{aligned} \text{To 1862 Aug. 30, 1 Rev.} &= 28^{\circ}583 \\ \text{After „ „ „} &= 28^{\circ}548 \end{aligned}$$

The Mean Run of the six microscopes for 5' of arc will be found in Table V., pp. 44 to 59. The correction for Runs is very large, but very constant, and its change by temperature is insensible. The Inclination of the horizontal web was changed four times during the period 1861-65 for various reasons (generally in consequence of the insertion of a new web or webs). The corrections for Inclination were

At wire	1	2	3	4	5	6	7
To 1860 Aug. 20	+0 [•] 77	+0 [•] 52	+0 [•] 26		-0 [•] 26	-0 [•] 52	-0 [•] 77
From 1860 Aug. 23							
to Sept. 23	-1 [•] 19	-0 [•] 79	-0 [•] 40		+0 [•] 40	+0 [•] 79	+1 [•] 19
From 1860 Sept. 24							
to 1862 July 27...	+0 [•] 75	+0 [•] 50	+0 [•] 25		-0 [•] 25	-0 [•] 50	-0 [•] 75

On 1862 July 28-30 two nearly parallel horizontal webs *h* and *f* were inserted; their measured distance apart was found to be

At wire	1	2	3
Distance	14 [•] 196	14 [•] 274	14 [•] 300

and their Inclination for one wire interval *before* the centre wire

	<i>h</i>	<i>f</i>
1862 Aug. 6 to 1863 Oct. 22	+ 0 [•] 237	+ 0 [•] 254
1863 Oct. 23 to 1865 Dec. 31	+ 0 [•] 250	+ 0 [•] 267

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In December 1855 the Division-errors of the Circle were very carefully determined at every 5° with the following results—
(+0°·0195 having been added to make all positive.)

Division.	Error.	Division.	Error.	Division.	Error.	Division.	Error.
0	r	0	r	0	r	0	r
0	0·0908	90	0·0810	180	0·0403	270	0·0081
5	·0678	95	·0874	185	·0472	275	·0150
10	·0710	100	·0845	190	·0441	280	·0306
15	·0895	105	·0827	195	·0484	285	·0280
20	·0847	110	·0888	200	·0447	290	·0231
25	·0764	115	·0674	205	·0330	295	·0034
30	·0605	120	·0395	210	·0380	300	·0277
35	·0632	125	·0172	215	·0460	305	·0365
40	·0845	130	·0000	220	·0551	310	·0380
45	·0899	135	·0198	225	·0541	315	·0423
50	·0784	140	·0195	230	·0406	320	·0319
55	·0812	145	·0228	235	·0460	325	·0763
60	·0799	150	·0241	240	·0356	330	·0737
65	·0774	155	·0273	245	·0107	335	·0703
70	·0824	160	·0266	250	·0332	340	·0447
75	·0895	165	·0403	255	·0366	345	·0479
80	·0947	170	·0422	260	·0426	350	·0874
85	·0888	175	·0455	265	·0242	355	·0916

The only determinations of Flexure previous to 1866 seem to be the following, made on 1855 March 26. The Collimators were independently adjusted upon each other for each determination—Mr. Maclear reading the Circle-microscopes and Mr. Mann the Collimators and Circle-micrometer.

Observation	1	2	3
	Circle Reading.	Circle Reading.	Circle Reading.
On South Collimator	90° 9' 42·03	90° 12' 23·97	90° 9' 47·23
„ North „	270° 9' 41·44	270° 12' 23·56	270° 9' 46·67
Excess of Upper Semicircle	+ 0·59	+ 0·41	+ 0·56

Distances of 90° from the Zenith are therefore, in the mean, measured 0°·26 too great. In the Introductions to the “Cape Observations” 1856-60, it is stated that this Flexure corresponds with a greater fall of the object-glass end. This mistake has been taken over, without sufficient examination, in the Introduction to the “Cape

Observations" 1882-84, p. xxix. The fact that the observed Zenith Distances require negative corrections to reduce to true Zenith Distances proves that the eye-end is more bent downwards by gravity than the object-glass end. The correction for Flexure was therefore assumed to be

$$- 0''.26 \sin z$$

which, combined with the preceding corrections for Division-error, and interpolated for each degree, give for the correction applicable to the mean of the 6 microscope-readings the following :—

**CORRECTIONS FOR DIVISION ERROR (MEAN OF 6 MICROSCOPES)
+ FLEXURE.**

Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.
0	"	0	"	0	"	0	"	0	"	0	"	0	"
0	1.01	25	0.40	50	0.48	75	0.18	100	0.92	125	0.56	150	0.59
1	0.95	26	0.44	51	0.47	76	0.15	101	0.80	126	0.53	151	0.71
2	0.90	27	0.48	52	0.46	77	0.11	102	0.69	127	0.49	152	0.83
3	0.85	28	0.52	53	0.45	78	0.07	103	0.58	128	0.46	153	0.95
4	0.80	29	0.55	54	0.44	79	0.04	104	0.46	129	0.43	154	1.07
5	0.75	30	0.59	55	0.43	80	0.00	105	0.35	130	0.40	155	1.18
6	0.71	31	0.70	56	0.50	81	0.05	106	0.37	131	0.37	156	1.16
7	0.67	32	0.81	57	0.57	82	0.10	107	0.38	132	0.34	157	1.14
8	0.63	33	0.92	58	0.64	83	0.15	108	0.40	133	0.31	158	1.13
9	0.59	34	1.03	59	0.71	84	0.20	109	0.42	134	0.28	159	1.11
10	0.56	35	1.14	60	0.78	85	0.25	110	0.44	135	0.25	160	1.09
11	0.52	36	1.12	61	0.73	86	0.29	111	0.43	136	0.22	161	0.97
12	0.48	37	1.09	62	0.68	87	0.34	112	0.43	137	0.19	162	0.86
13	0.44	38	1.06	63	0.63	88	0.38	113	0.42	138	0.15	163	0.75
14	0.40	39	1.03	64	0.58	89	0.42	114	0.42	139	0.12	164	0.64
15	0.37	40	1.01	65	0.53	90	0.46	115	0.41	140	0.09	165	0.53
16	0.33	41	0.89	66	0.50	91	0.58	116	0.48	141	0.14	166	0.55
17	0.29	42	0.77	67	0.46	92	0.69	117	0.56	142	0.20	167	0.57
18	0.25	43	0.65	68	0.43	93	0.81	118	0.63	143	0.25	168	0.59
19	0.21	44	0.53	69	0.39	94	0.92	119	0.71	144	0.31	169	0.61
20	0.17	45	0.42	70	0.36	95	1.03	120	0.78	145	0.36	170	0.64
21	0.21	46	0.43	71	0.32	96	1.01	121	0.74	146	0.41	171	0.63
22	0.26	47	0.44	72	0.29	97	0.99	122	0.69	147	0.45	172	0.63
23	0.31	48	0.46	73	0.25	98	0.97	123	0.65	148	0.50	173	0.63
24	0.35	49	0.47	74	0.22	99	0.94	124	0.60	149	0.55	174	0.63

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**CORRECTIONS FOR DIVISION ERROR (MEAN OF 6 MICROSCOPES)
+ FLEXURE—continued.**

Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.	Pointer Reading.	Correction.
°	"	°	"	°	"	°	"	°	"	°	"	°	"
175	0.62	202	0.46	229	0.86	256	0.65	283	1.08	310	0.80	337	1.35
176	0.70	203	0.51	230	0.88	257	0.62	284	0.97	311	0.76	338	1.32
177	0.78	204	0.57	231	0.88	258	0.58	285	0.85	312	0.73	339	1.29
178	0.85	205	0.62	232	0.87	259	0.55	286	0.87	313	0.69	340	1.26
179	0.93	206	0.67	233	0.87	260	0.51	287	0.88	314	0.65	341	1.14
180	1.01	207	0.71	234	0.86	261	0.56	288	0.90	315	0.62	342	1.02
181	0.96	208	0.76	235	0.86	262	0.62	289	0.91	316	0.58	343	0.91
182	0.92	209	0.81	236	0.93	263	0.67	290	0.92	317	0.54	344	0.79
183	0.88	210	0.85	237	1.01	264	0.72	291	0.92	318	0.50	345	0.67
184	0.84	211	0.97	238	1.08	265	0.77	292	0.91	319	0.46	346	0.68
185	0.79	212	1.09	239	1.16	266	0.81	293	0.90	320	0.42	347	0.69
186	0.76	213	1.21	240	1.23	267	0.86	294	0.89	321	0.47	348	0.70
187	0.73	214	1.32	241	1.19	268	0.90	295	0.88	322	0.52	349	0.71
188	0.70	215	1.44	242	1.14	269	0.94	296	0.95	323	0.56	350	0.73
189	0.68	216	1.42	243	1.10	270	0.98	297	1.02	324	0.61	351	0.71
190	0.65	217	1.40	244	1.05	271	1.10	298	1.09	325	0.66	352	0.70
191	0.62	218	1.38	245	1.01	272	1.21	299	1.16	326	0.70	353	0.69
192	0.59	219	1.36	246	0.97	273	1.33	300	1.23	327	0.74	354	0.68
193	0.56	220	1.34	247	0.94	274	1.44	301	1.18	328	0.78	355	0.67
194	0.53	221	1.23	248	0.91	275	1.55	302	1.13	329	0.81	356	0.74
195	0.50	222	1.12	249	0.88	276	1.53	303	1.08	330	0.85	357	0.80
196	0.47	223	1.01	250	0.85	277	1.50	304	1.03	331	0.96	358	0.87
197	0.44	224	0.90	251	0.81	278	1.48	305	0.98	332	1.07	359	0.94
198	0.41	225	0.78	252	0.78	279	1.46	306	0.95	333	1.18	360	1.01
199	0.38	226	0.80	253	0.75	280	1.43	307	0.91	334	1.29		
200	0.35	227	0.82	254	0.72	281	1.31	308	0.87	335	1.40		
201	0.40	228	0.84	255	0.68	282	1.20	309	0.84	336	1.38		

These corrections were applied to all the observations.

The Nadir-points were determined exclusively by observations of the reflected image of the horizontal wire in a pool of mercury.

The separate results of determinations of the Nadir-point will be found in Table VI., pp. 60 to 84, the actual readings adopted being shewn in the same table,

The Refractions were computed by Bessel's *Tabulæ Regiomontanæ*. The Thermometer employed was placed in a crib in the S.W. window of the Transit-Room; it was constructed by Dollond, had a large cylindrical bulb, and its graduations were engraved on an attached ivory scale. We have no certain knowledge of the calibration and index-errors of this thermometer.

The observations were all reduced to Apparent N.P.D. with an assumed Latitude

$33^{\circ} 56' 3''.2$ South.

The computations had been carried thus far under the direction of Sir Thomas Maclear, but were not carried to a further stage except in the case of comet-comparison stars.

During the past few years the observations have been reduced to Mean Place as opportunity offered, and all discordant results have been examined from the beginning. In this way a few arithmetical errors in the computation of Apparent Place were discovered, but such errors were not sufficient in number to warrant the labour of a re-examination of the whole.

In the reductions to Mean Place the small terms depending on α and β were taken into account for α and β Centauri, and for all stars within 15° of the pole.

The number of Southern Stars contained in the work is disappointing—indeed, after 1860, some of the best observers ceased to take part in the meridian observing, and the work was carried on with less system and vigour than it had been during the period 1856–60. Many observations of the Sun, Moon and Planets, and a great part of the Right Ascensions of the Clock-Stars, are rendered useless by want of sufficient determination of Clock-error. The observed Right Ascensions of the Sun, Moon and Planets have been retained when two or more Clock-Stars were observed.

The semi-diameters of the Nautical Almanac have been used in the reductions. The value $8''.80$ has been adopted for the mean horizontal equatorial parallax of the Sun.

The results of observation of the Sun, Moon and Planets have in every case been compared with the Ephemerides of the Nautical Almanac for the year in which the observations were made.

Royal Observatory, Cape of Good Hope, 1861-5. xv

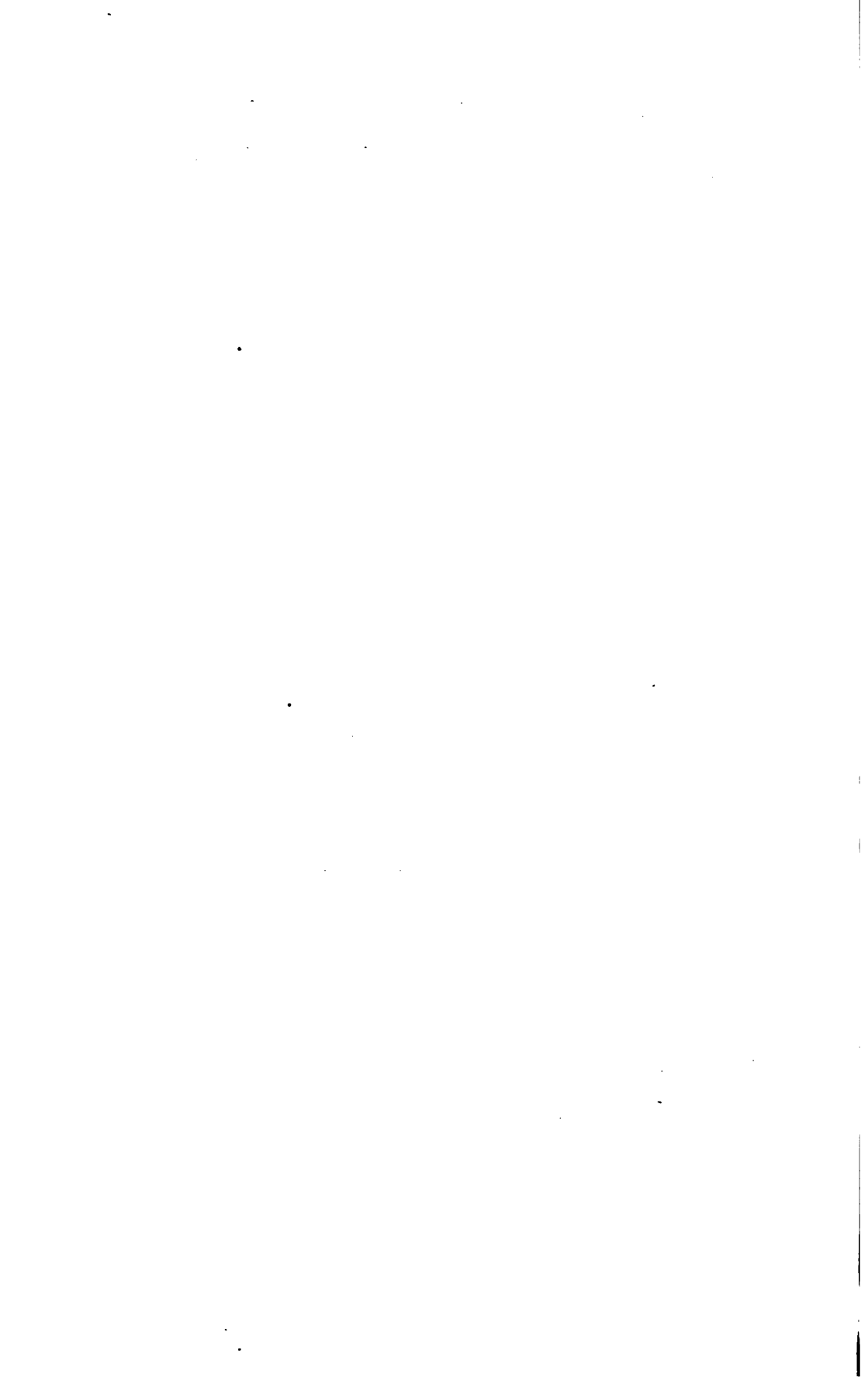
The Right Ascensions of the Moon's limb, and of Moon-Culminating Stars are given in a special section. The observed Declinations of these stars, reduced to mean place for the year of observation, will be found in the ledgers corresponding to the dates of observation.

The Longitude of the Transit-Circle adopted in the reductions depends on the series of Telegraphic differences of Longitude discussed in the *Annals of the Cape Observatory*, Vol. I., Part II., viz. :

$1^{\text{h}}. 13^{\text{m}}. 54^{\text{s}}.757.$

DAVID GILL.

1897 June 18.



ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

TABLES

OF

INSTRUMENTAL CORRECTIONS,

1861—1865.

Collimation-Errors of the Transit-Circle,

TABLE I.

Collimation-Errors of the Transit-Circle.

[SET OF R.A. MICROMETER-SCREW :—1861 Jan. 1 to 1865 June 5, 30^r.250; 1865 June 6 to Dec. 31, 30^r.000.]

Date.	Error of Collimation.	Date.	Error of Collimation.	Date.	Error of Collimation.
1861.	"	1862—cont.	"	1863—cont.	"
Jan. 1 — 16	+ 0.030	Feb. 7 — 19	+ 0.029	May 22—June 2	+ 0.054
17 — 27	+ 0.027	Feb. 20—Mar. 7	+ 0.030	June 3 — 17	+ 0.052
Jan. 28—Feb. 11	+ 0.038	Mar. 8 — 20	+ 0.043	June 19—July 2	+ 0.057
Feb. 13 — 20	+ 0.039	Mar. 21—Apr. 3	+ 0.039	July 3 — 14	+ 0.054
21 — 28	+ 0.033	Apr. 5 — 17	+ 0.038	15 — 17	+ 0.061
Mar. 1 — 13	+ 0.030	Apr. 18—May 15	+ 0.042	July 21—Aug. 6	+ 0.056
14 — 27	+ 0.034	May 16 — 30	+ 0.046	Aug. 7 — 19	+ 0.063
Mar. 28—Apr. 10	+ 0.039	June 1 — 17	+ 0.048	20 — 26	+ 0.055
Apr. 11 — 24	+ 0.030	June 19—July 3	+ 0.053	Aug. 28—Sept. 9	+ 0.052
Apr. 25—May 9	+ 0.038	July 4 — 17	+ 0.062	Sept. 10 — 24	+ 0.058
May 10 — 23	+ 0.050	18 — 28	+ 0.055	Sept. 25—Oct. 5	+ 0.067
May 24—June 5	+ 0.046	July 30—Aug. 6	+ 0.062	Oct. 7 — 8	+ 0.023
June 6 — 19	+ 0.057	Aug. 7 — 18	+ 0.065	9 — 20	+ 0.046
June 20—July 3	+ 0.051	Aug. 19—Sept. 5	+ 0.064	22	+ 0.092
July 4 — 16	+ 0.049	Sept. 6 — 17	+ 0.063	24 — 25	+ 0.032
17 — 23	+ 0.053	Sept. 18—Oct. 8	+ 0.062	Oct. 29—Nov. 11	+ 0.040
July 24—Aug. 7	+ 0.055	Oct. 9—Nov. 5	+ 0.066	Nov. 12 — 25	+ 0.035
Aug. 11 — 19	+ 0.051	Nov. 6 — 23	+ 0.051	Nov. 26—Dec. 12	+ 0.027
Aug. 21—Sept. 11	+ 0.054	Nov. 24—Dec. 17	+ 0.044	Dec. 13 — 31	+ 0.014
Sept. 13—Oct. 3	+ 0.045	Dec. 18—Jan. 14	+ 0.035		
Oct. 4 — 17	+ 0.038			1864.	
Oct. 18—Nov. 6	+ 0.036	1863.		Jan. 1—Feb. 5	+ 0.021
Nov. 7 — 27	+ 0.041	Jan. 15—Feb. 5	+ 0.024	Feb. 6 — 17	+ 0.014
Nov. 28—Dec. 12	+ 0.034	Feb. 6 — 20	+ 0.022	Feb. 18—Mar. 2	+ 0.025
Dec. 13 — 19	+ 0.029	Feb. 21—Mar. 3	+ 0.030	Mar. 3 — 14	+ 0.030
20 — 31	+ 0.034	Mar. 4 — 18	+ 0.036	14 — 24	+ 0.026
1862.		19 — 26	+ 0.038	Mar. 25—Apr. 7	+ 0.036
Jan. 1 — 12	+ 0.031	Mar. 27—Apr. 9	+ 0.036	Apr. 8 — 20	+ 0.041
13 — 22	+ 0.031	Apr. 10 — 22	+ 0.040	Apr. 21—May 4	+ 0.043
Jan. 23—Feb. 6	+ 0.035	Apr. 23—May 21	+ 0.049	May 5 — 19	+ 0.040

1862 July 28—30. Z D. wire-plate removed; two wires, distant apart about 14", inserted.

1863 October 6^d. 23^h. Object-glass removed, and its inner surface cleaned.

October 20—22. Eye-end removed; four additional wires inserted.

October 23. Eye-end turned round 90° for measurement of wire-intervals.

TABLE I.—continued.

Collimation-Errors of the Transit-Circle.

Date.	Error of Collimation.	Date.	Error of Collimation.	Date.	Error of Collimation.
1864—cont.	.	1865.	.	1865—cont.	.
May 20—June 2	+ 0'049	Jan. 1 — 11	+ 0'023	June 15 — 28	— 0'009
June 3 — 15	+ 0'045	12 — 25	+ 0'022	June 29—July 12	— 0'016
June 16—July 13	+ 0'055	Jan. 26—Feb. 8	+ 0'017	July 13 — 26	— 0'019
July 14 — 28	+ 0'059	Feb. 9 — 22	+ 0'032	July 27—Aug. 9	— 0'029
July 29—Aug. 10	+ 0'056	Feb. 23—Mar. 8	+ 0'025	Aug. 10 — 23	— 0'030
Aug. 11—Sept. 6	+ 0'046	Mar. 9 — 23	+ 0'028	Aug. 24—Sept. 6	— 0'018
Sept. 7 — 22	+ 0'026	Mar. 24—Apr. 6	+ 0'029	Sept. 7 — 20	— 0'024
Sept. 23—Oct. 6	+ 0'036	Apr. 7 — 20	+ 0'033	Sept. 21—Oct. 4	— 0'029
Oct. 7 — 19	+ 0'032	Apr. 21—May 3	+ 0'023	Oct. 5 — 11	— 0'023
Oct. 20—Nov. 3	+ 0'030	May 4 — 17	+ 0'035	12 — 25	— 0'029
Nov. 4 — 30	+ 0'027	May 18—June 4	+ 0'027	Oct. 26—Nov. 8	— 0'035
Dec. 1 — 14	+ 0'022	June 4 — 5	+ 0'205	Nov. 9 — 22	— 0'043
15 — 31	+ 0'025	June 6 — 14	— 0'002	Nov. 23—Dec. 6	— 0'033
				Dec. 7 — 21	— 0'046
				22 — 31	— 0'038

1865 June 5. No apparent cause can be traced for this large change in the Collimation-error. The set of the R.A. Micrometer was altered to 30'000.

TABLE II.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1861.		.	.	.	1861—cont.		.	.	.
Jan. ^d 1 ^h 23	W	+0.476		+0.180	Mar. ^d 27 ^h 14	G	+0.254	+0.240	
21 7	C	+0.464	+0.466		29 15	G	+0.240		
23 9	C	+0.460			30 16	W	+0.230		
24 10	G	+0.474			Apr. 1 23	W	+0.187		
25 12	C	+0.462			3 11	C	+0.155	+0.171	
26 13	G	+0.449	+0.456	+0.360	5 12	C	+0.091	+0.082	+0.994
27 13	W	+0.457			6 12	G	+0.073		
28 15	C	+0.461			8 11	C	+0.027		
29 15	G	+0.467	+0.469		9 11	G	+0.028	+0.024	+0.974
31 18	G	+0.478			10 11	C	+0.016		
Feb. 1 18	G	+0.470			12 10	C	+0.009		+0.990
7 20	T	+0.462	+0.458	+0.558	12 23	C	+0.004	+0.006	
8 22	C	+0.453			13 11	G	+0.004		
12 23	C	+0.430	+0.430		15 10	C	—0.032		+1.033
19 9	G	+0.384			16 11	G	—0.029	—0.040	
20 9	C	+0.363	+0.373	+0.690	17 11	C	—0.051		
21 10	G	+0.373			18 18	G	—0.049		
24 12	W	+0.357			22 10	C	—0.072		
25 13	C	+0.354	+0.354		24 11	C	—0.088	—0.083	+0.946
26 14	G	+0.351			25 11	G	—0.088		
27 14	C	+0.325		+0.822	27 10	G	—0.131		
Mar. 1 15	C	+0.303	+0.314		28 16	G	—0.147	—0.146	+0.983
2 18	G	+0.315			29 10	C	—0.160		
18 22	C	+0.209			May 5 10	G	—0.170		+0.953
20 7	C	+0.202			6 10	C	—0.184		
21 8	G	+0.211	+0.213		7 10	G	—0.182	—0.181	
22 9	C	+0.211			8 10	C	—0.184		+0.971
23 11	G	+0.230		+0.912	9 10	G	—0.186		
24 11	W	+0.229			14 9	G	—0.175	—0.188	
26 13	W	+0.248			16 9	G	—0.201		+0.784

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1861—cont.		"	"	"	1861—cont.		"	"	"
May ^{d h} 17 9	C	—0.169	—0.160		July ^{d h} 13 8	G	—0.015	—0.017	
18 9	G	—0.151			15 7	C	—0.018		
22 10	C	—0.116		+0.710	16 18	G	—0.039		+0.193
24 11	C	—0.098	—0.097	+0.680	17 8	C	—0.037	—0.037	
25 14	G	—0.076		+0.660	18 9	G	—0.042		
30 21	G	—0.030		+0.550	19 10	C	—0.030		+0.199
31 10	C	—0.028	—0.029	+0.522	25 16	G	+0.062	+0.062	
June 3 10	C	—0.020			30 23	C	+0.026		
5 10	C	—0.036			Aug. 1 10	W	+0.012	+0.017	
6 10	W	—0.018			3 10	W	+0.014		
7 9	C	—0.031		+0.431	6 23	C	+0.016		+0.086
8 19	W	—0.031	—0.027		12 4	C	+0.041		
10 10	C	—0.029			13 6	G	+0.037	+0.041	
15 10	W	0.000			14 7	C	+0.042		
17 9	C	+0.001	—0.005		16 9	C	+0.044		
19 10	C	—0.015		+0.350	19 12	C	+0.023		
21 9	C	—0.006			23 15	C	+0.033	+0.026	
22 13	W	—0.016	—0.014		24 16	G	+0.021		
23 13	W	—0.018		+0.271	26 17	C	—0.003	—0.008	
24 15	C	—0.015			27 22	G	—0.012		+0.020
28 8	C	+0.007			Sept. 5 23	C	+0.074	+0.076	
29 7	G	+0.007			9 4	C	+0.079		
July 1 8	C	+0.008	+0.009		13 8	C	+0.100		
2 9	G	+0.001		+0.256	14 9	G	+0.101	+0.105	
3 9	C	+0.022			16 10	C	+0.112		
5 9	C	+0.032			17 11	G	+0.108		
8 8	C	+0.051	+0.040		21 15	G	+0.119		
9 9	G	+0.038			28 2	C	+0.108	+0.112	
11 9	G	+0.010	+0.007	+0.184	Oct. 3 17	G	+0.108		
12 10	C	+0.003			7 16	G	+0.137		

TABLE II.—*continued.*

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1861—cont.					1861—cont.				
Oct. 10 ^a 8 ^h	W	+0° 155		+0° 061	Dec. 16 ^a 13 ^h	W	+0° 290		
11 6	G	+0° 137	+0° 144		17 12	G	+0° 299		+0° 103
12 9	W	+0° 145			18 14	W	+0° 294		
14 9	G	+0° 144			20 16	W	+0° 295	+0° 292	
15 10	W	+0° 178	+0° 163		21 17	G	+0° 286		
16 10	G	+0° 165			22 17	W	+0° 293		
17 11	W	+0° 165			31 0	G	+0° 276		
18 13	G	+0° 154		+0° 043					
19 12	W	+0° 160	+0° 170		1862.				
21 16	G	+0° 195			Jan. 2 10	W	+0° 271	+0° 271	
Nov. 8 9	W	+0° 221			5 23	G	+0° 263		+0° 340
10 7	G	+0° 210			7 6	G	+0° 270		
13 10	W	+0° 235	+0° 220		8 7	W	+0° 274		
14 11	W	+0° 226			9 7	G	+0° 266		
15 11	G	+0° 208			10 9	W	+0° 256	+0° 253	
16 12	G	+0° 206		+0° 055	11 9	G	+0° 254		
17 12	W	+0° 204			12 9	W	+0° 235		
18 13	G	+0° 195	+0° 205		13 10	G	+0° 211		
19 15	W	+0° 209			14 11	W	+0° 224	+0° 214	
21 14	W	+0° 207			15 13	G	+0° 208		
22 16	G	+0° 206			16 12	W	+0° 214		
Dec. 3 12	W	+0° 225			17 15	G	+0° 209		
4 14	W	+0° 216	+0° 221	+0° 067	19 16	G	+0° 196	+0° 203	+0° 569
6 12	W	+0° 222			21 18	G	+0° 202		
9 13	W	+0° 291			22 18	W	+0° 204		
10 12	W	+0° 302	+0° 291	+0° 075	26 23	G	+0° 163		
11 8	G	+0° 290			29 5	G	+0° 161	+0° 165	
11 22	W	+0° 283			29 10	CF	+0° 175		
13 9	G	+0° 263			Feb. 5 21	G	+0° 166	+0° 165	
14 11	W	+0° 282			6 9	CF	+0° 163		
15 11	G	+0° 288	+0° 284						

January 12^d. 22^h. Instrument raised from its bearings; pivots cleaned and oiled.

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1862—cont.					1862—cont.				
Feb. ^d ^h 8 8	G	+0°124			Apr. ^d ^h 7 7	G	—0°453		
9 9	W	+0°112	+0°118		8 9	W	—0°470	—0°462	
10 9	G	+0°093			9 21	G	—0°506		
11 11	W	+0°085	+0°088		10 10	W	—0°502	—0°514	
11 14	CF	+0°086			12 12	W	—0°534		
12 9	CF	+0°076	+0°072	+0°780	13 12	G	—0°565	—0°571	
12 10	G	+0°068			14 13	W	—0°577		+0°931
14 13	G	+0°056			19 18	G	—0°648	—0°660	
15 14	W	+0°054	+0°049		20 19	W	—0°671		
16 14	G	+0°037			27 22	G	—0°787	—0°787	
23 23	G	+0°016	+0°016		May 1 22	G	—0°779	—0°779	+0°955
27 17	G	—0°029	—0°043		2 22	G	—0°779		
28 18	G	—0°056		+0°928	8 8	G	—0°815		
Mar. 1 16	G	—0°069	—0°069		9 10	W	—0°808		
5 17	G	—0°122	—0°122		10 10	G	—0°810	—0°809	+0°876
10 8	W	—0°140			12 11	G	—0°806		
11 8	G	—0°166	—0°161		15 13	W	—0°814		
12 9	W	—0°176			16 16	G	—0°828	—0°821	
13 10	G	—0°192			17 17	W	—0°820		+0°904
14 11	W	—0°200	—0°198	+1°059	18 18	G	—0°841		
17 22	G	—0°202			19 19	W	—0°863	—0°851	
18 16	W	—0°208	—0°217		20 22	G	—0°849		+0°899
19 17	W	—0°226			28 22	G	—0°951		
20 17	W	—0°228	—0°236		29 22	G	—0°969	—0°964	
21 18	W	—0°243			30 22	G	—0°973		+0°832
27 19	G	—0°316	—0°316		June 2 22	G	—1°015		
30 22	G	—0°371	—0°371		3 22	G	—1°008		
Apr. 2 16	G	—0°420	—0°419	+1°033	4 23	G	—1°000	—1°004	
3 16	G	—0°418			5 7	W	—0°993		

TABLE II.—*continued.**Level and Azimuth Errors of the Transit-Circle.*

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1862— <i>cont.</i>		"	"	"	1862— <i>cont.</i>		"	"	"
June ^d 6 ^h 7	G	—1 ^o 006		+0 ^o 903	Sept. ^d 2 ^h 11	G	—0 ^o 410		
12 12	G	—1 ^o 014	—1 ^o 014	+0 ^o 625	3 11	CF	—0 ^o 406	—0 ^o 408	
19 22	G	—0 ^o 803	—0 ^o 803		4 11	G	—0 ^o 406		
28 0	G	—0 ^o 612	—0 ^o 612	+0 ^o 438	5 9	CF	—0 ^o 410		
July 4 6	G	—0 ^o 579			7 10	CF	—0 ^o 382		
5 9	W	—0 ^o 564	—0 ^o 574	+0 ^o 318	8 11	G	—0 ^o 363	—0 ^o 367	
6 7	G	—0 ^o 579			9 12	CF	—0 ^o 356		
7 8	W	—0 ^o 573			10 14	G	—0 ^o 346		
8 10	G	—0 ^o 571			11 13	CF	—0 ^o 346		+0 ^o 132
9 12	W	—0 ^o 582	—0 ^o 581		12 16	G	—0 ^o 346	—0 ^o 345	
10 12	G	—0 ^o 586			13 17	CF	—0 ^o 344		
12 14	G	—0 ^o 583			14 19	G	—0 ^o 344		
17 18	W	—0 ^o 570		+0 ^o 223	17 10	CF	—0 ^o 330		
18 18	G	—0 ^o 614	—0 ^o 600		18 8	G	—0 ^o 335	—0 ^o 334	
18 22	G	—0 ^o 615			19 10	CF	—0 ^o 336		
30 10	W	—0 ^o 569			22 22	CF	—0 ^o 316		
Aug. 3 7	G	—0 ^o 573	—0 ^o 571	+0 ^o 167	23 11	G	—0 ^o 312	—0 ^o 315	
6 10	W	—0 ^o 535			24 4	CF	—0 ^o 316		+0 ^o 057
10 12	W	—0 ^o 543	—0 ^o 548		30 9	G	—0 ^o 327		
11 13	G	—0 ^o 566		+0 ^o 150	Oct. 2 9	CF	—0 ^o 355		
19 21	G	—0 ^o 572			3 8	G	—0 ^o 351	—0 ^o 338	
22 12	G	—0 ^o 556	—0 ^o 564		4 3	CF	—0 ^o 346		
23 10	CF	—0 ^o 525	—0 ^o 520	+0 ^o 200	5 10	G	—0 ^o 348		+0 ^o 024
24 12	G	—0 ^o 516			7 0	CF	—0 ^o 303		
25 10	CF	—0 ^o 498	—0 ^o 479		10 22	G	—0 ^o 303		
26 11	G	—0 ^o 460			12 23	CF	—0 ^o 297	—0 ^o 292	
29 10	CF	—0 ^o 396			13 22	CF	—0 ^o 283		
30 0	W	—0 ^o 403	—0 ^o 399		15 8	CF	—0 ^o 283		
30 11	G	—0 ^o 399		+0 ^o 189	17 23	CF	—0 ^o 277		
					19 23	CF	—0 ^o 304	—0 ^o 303	
					20 23	CF	—0 ^o 327		

August 19. Instrument raised from its bearings ; pivots cleaned and oiled.

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

D. te.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1862—cont.					1862—cont.				
Oct. ^{d h} 23 0	CF	—0° 325			Dec. ^{d h} 23 22	G	+0° 088		—0° 039
24 9	G	—0° 320			23 22	IF	+0° 086	+0° 089	
25 8	CF	—0° 312	—0° 309		28 23	CF	+0° 099		
27 8	CF	—0° 304		+0° 084	29 23	CF	+0° 096		
28 22	G	—0° 283			31 0	CF	+0° 094	+0° 093	
31 7	CF	—0° 265			31 0	IF	+0° 090		—0° 135
Nov. 1 8	G	—0° 259	—0° 248		1863.				
2 8	G	—0° 241			Jan. 1 23	OF	+0° 077		
4 11	G	—0° 225			2 23	CF	+0° 074	+0° 077	
6 0	G	—0° 211			4 22	G	+0° 081		
7 13	CF	—0° 196	—0° 198		6 14	G	+0° 050		+0° 030
9 15	G	—0° 186			8 0	IF	+0° 056	+0° 045	
23 22	G	—0° 085			8 16	G	+0° 034		
24 10	G	—0° 104	—0° 102	+0° 044	9 17	G	+0° 041		
26 10	G	—0° 110			10 18	W	+0° 056		
28 8	G	—0° 107			12 3	CF	+0° 044	+0° 051	+0° 100
29 10	W	—0° 105			13 3	IF	+0° 053		
30 9	W	—0° 109	—0° 108		20 23	IF	+0° 061		+0° 200
Dec. 1 9	G	—0° 110			23 4	IF	+0° 051	+0° 055	
2 9	CF	—0° 094	—0° 090		23 23	CF	+0° 054		
3 9	G	—0° 085			25 23	IF	+0° 025		+0° 300
5 11	G	—0° 064	—0° 063		26 6	G	+0° 027	+0° 031	
6 12	CF	—0° 061		—0° 010	27 3	IF	+0° 032		
7 13	W	—0° 032	—0° 027		28 3	IF	+0° 038		
8 12	CF	—0° 021			29 3	CF	+0° 030		
10 4	CF	+0° 011	+0° 008		30 4	CF	+0° 036	+0° 035	+0° 400
11 17	G	+0° 004			31 9	G	+0° 038		
14 22	G	+0° 082			Feb. 2 3	IF	+0° 053		
17 3	CF	+0° 097	+0° 086		2 13	W	+0° 049	+0° 044	
19 3	CF	+0° 079							
21 23	G	+0° 083							

TABLE II.—*continued.**Level and Azimuth Errors of the Transit-Circle.*

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1863— <i>cont.</i>		"	"	"	1863— <i>cont.</i>		"	"	"
Feb. ^{d h} 3 12	CF	+0.038			Apr. ^{d h} 1 11	G	—0.442	—0.445	
4 4	IF	+0.036		+0.500	4 14	G	—0.434		
5 13	CF	+0.015			7 16	G	—0.409		
6 4	IF	+0.032	+0.033		8 23	CF	—0.413	—0.411	+0.898
8 22	IF	+0.028		+0.600	12 22	IF	—0.455		
10 10	G	+0.056			15 13	CF	—0.445	—0.454	
12 4	CF	—0.013	—0.018		16 17	G	—0.462		
13 3	IF	—0.022			20 17	G	—0.511		+0.752
17 19	G	—0.072		+0.744	21 16	CF	—0.511	—0.513	
18 10	IF	—0.074	—0.075		22 17	W	—0.518		
20 10	IF	—0.078			23 13	G	—0.507		
21 11	G	—0.094	—0.094	+0.842	24 17	CF	—0.499	—0.499	
25 11	G	—0.148	—0.165		25 16	W	—0.490		+0.788
27 10	IF	—0.181			26 8	G	—0.500		
28 11	G	—0.227			27 17	G	—0.468		
Mar. 1 8	CF	—0.253	—0.241		28 16	CF	—0.459	—0.454	+0.761
2 23	IF	—0.242		+0.939	29 12	W	—0.457		
3 10	G	—0.262			30 22	CF	—0.430		
4 11	CF	—0.258	—0.255		May 3 18	W	—0.414	—0.418	+0.616
5 13	IF	—0.245			4 15	CF	—0.422		
12 10	G	—0.311			8 22	IF	—0.450	—0.453	
13 10	CF	—0.318	—0.319		9 15	G	—0.456		
14 8	IF	—0.329		+0.970	11 15	CF	—0.476		+0.510
16 9	G	—0.375			12 15	IF	—0.490	—0.487	
17 9	CF	—0.395	—0.393		13 14	G	—0.496		
18 9	IF	—0.408			18 14	G	—0.453	—0.453	+0.455
23 9	G	—0.430			21 14	G	—0.408		
24 7	CF	—0.424	—0.429		23 15	W	—0.394	—0.401	+0.395
27 22	CF	—0.433		+0.967	26 4	CF	—0.409		
29 8	G	—0.458			27 9	IF	—0.405		
					28 17	G	—0.408	—0.408	+0.376

March 23^d 23^h. Instrument raised from its bearings ; pivots cleaned and oiled.

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1863—cont.		"	"	"	1863—cont.		"	"	"
May ^{d h} 30 11	G	—0'410			July ^{d h} 30 13	IF	—0'423		
June 3 14	G	—0'434			31 12	CF	—0'423	—0'419	+0'159
4 13	CF	—0'452		+0'323	Aug. 1 13	IF	—0'411		
6 12	G	—0'443	—0'437		3 15	CF	—0'420		
7 23	CF	—0'425			4 16	G	—0'436	—0'427	
8 11	G	—0'430		+0'270	5 7	IF	—0'425		
11 11	G	—0'411			8 3	CF	—0'448	—0'445	+0'140
12 11	G	—0'410	—0'411		10 6	G	—0'442		
14 22	CF	—0'411		+0'261	12 5	IF	—0'428	—0'415	
25 1	IF	—0'454	—0'455		15 4	IF	—0'401		
27 9	W	—0'456			19 3	IF	—0'374	—0'388*	
28 10	W	—0'468	—0'476		24 4	CF	—0'373		
29 10	G	—0'485		+0'206	25 3	IF	—0'400	—0'388	+0'193
30 10	CF	—0'485	—0'497		25 9	G	—0'382		
July 1 12	IF	—0'509			26 3	IF	—0'397		
2 18	G	—0'501			28 3	IF	—0'410	—0'400	
4 4	CF	—0'493	—0'494		31 16	G	—0'391		
5 17	G	—0'488			Sept. 2 4	CF	—0'394		
8 6	G	—0'472		+0'230	3 2	IF	—0'401	—0'403	
9 7	CF	—0'448	—0'454		3 17	G	—0'406		+0'116
10 6	IF	—0'442			4 17	IF	—0'409		
13 6	CF	—0'438	—0'433		8 9	CF	—0'388	—0'378	
14 7	G	—0'427			11 8	CF	—0'367		
16 3	CF	—0'417	—0'410	+0'204	12 10	IF	—0'376		
17 4	IF	—0'403			14 10	G	—0'365	—0'371	
22 3	CF	—0'392			15 8	CF	—0'366		
24 4	IF	—0'399	—0'395		16 10	IF	—0'376		
25 7	CF	—0'395			18 6	CF	—0'363	—0'365	
26 9	W	—0'427		+0'177	19 9	IF	—0'366		+0'093
28 10	G	—0'423	—0'428		22 7	CF	—0'336		
29 11	CF	—0'434			23 10	IF	—0'353	—0'345	

*Mean of August 15 and August 19.

TABLE II.—*continued.*

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1363—cont.					1863—cont.				
Sept. 24 ^d 8 ^h	G	—0° 345			Dec. 3 ^d 11 ^h	W	—0° 155		
25 10	CF	—0° 330			4 8	G	—0° 148	—0° 146	
27 23	CF	—0° 317	—0° 324		5 12	W	—0° 135		
Oct. 1 17	CF	—0° 345			7 8	G	—0° 135		
2 21	IF	—0° 323	—0° 334		8 11	W	—0° 126	—0° 121	
5 10	G	—0° 327			9 8	CF	—0° 102		
6 10	CF	—0° 323	—0° 325		11 8	G	—0° 066	—0° 053	
7 10	IF	—0° 355			12 9	IF	—0° 039		
8 9	G	—0° 344			18 0	CF	+0° 017		+0° 092
9 10	CF	—0° 303			19 7	IF	+0° 011		
10 9	IF	—0° 270	—0° 272		20 9	G	—0° 026	—0° 002	
12 10	G	—0° 245		+0° 063	21 4	CF	—0° 003		
18 23	G	—0° 223			22 10	IF	—0° 009		
22 10	W	—0° 240	—0° 232		23 10	G	—0° 033		
25 22	T	—0° 238			24 11	CF	—0° 027		
26 11	G	—0° 243	—0° 240		25 14	W	—0° 050	—0° 046	
28 4	W	—0° 207			28 16	G	—0° 058		
Nov. 2 10	G	—0° 204	—0° 205		30 17	CF	—0° 063		
10 9	CF	—0° 179							
11 10	IF	—0° 176	—0° 178		1864.				
16 8	G	—0° 186			Jan. 3 22	CF	—0° 016	—0° 024	+0° 169
17 11	IF	—0° 169	—0° 189		8 8	G	—0° 031		
18 7	G	—0° 205			12 9	IF	—0° 054		
20 8	CF	—0° 194			14 9	IF	—0° 070		+0° 237
23 22	G	—0° 240			16 11	IF	—0° 057	—0° 061	
25 12	CF	—0° 235	—0° 238	+0° 016	17 8	G	—0° 065		
26 14	G	—0° 238			18 7	CF	—0° 057		
27 15	CF	—0° 197			19 12	G	—0° 062		+0° 422
28 16	G	—0° 232	—0° 219		24 14	G	—0° 027		
29 17	W	—0° 229			26 9	IF	—0° 047	—0° 036	
					28 17	IF	—0° 034		

December 9^d 8^h. Strong wind; mercury very unsteady.

TABLE II.—*continued.*

Level and Azimuth Errors of the Transit-Circle.

1894—cont.					1864—cont.				
Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
Feb. 1 ^d 9 ^h	CF	—0°038			Mar. 20 ^d 11 ^h	W	—0°425		
2 8	IF	—0°046		+0°626	21 12	G	—0°439	—0°446	
4 10	IF	—0°043	—0°046		22 12	W	—0°452		+1°364
5 9	G	—0°057			23 12	CF	—0°484	—0°506	
9 10	IF	—0°079		+0°677	24 12	W	—0°528		
10 8	G	—0°109	—0°094		27 18	W	—0°609	—0°628	
11 8	IF	—0°104		+0°735	28 15	CF	—0°647		
12 8	G	—0°131	—0°117		29 10	IF	—0°636		
16 10	W	—0°124	—0°137	+0°731	29 10	W	—0°662	—0°663	
18 9	W	—0°149			30 17	G	—0°691		+1°481
19 10	G	—0°154		+0°867	31 9	W	—0°649	—0°649	
20 8	W	—0°164	—0°163		Apr. 4 0	W	—0°751		
21 13	W	—0°171			5 21	G	—0°772	—0°763	+1°390
24 15	G	—0°203			7 9	W	—0°760		
25 16	W	—0°212	—0°194		9 9	W	—0°767		
26 16	CF	—0°168		+1°115	11 17	G	—0°805	—0°818	+1°359
27 14	IF	—0°256	—0°277		12 7	IF	—0°831		
29 9	G	—0°298			14 10	W	—0°827	—0°828	
Mar. 2 7	G	—0°316			16 10	W	—0°829		
3 11	W	—0°308	—0°307	+1°100	18 10	G	—0°846	—0°849	+1°295
4 8	CF	—0°298			19 10	W	—0°851		
7 7	G	—0°365	—0°378	+1°210	20 11	CF	—0°843	—0°857	
8 7	IF	—0°390			21 11	W	—0°870		+1°383
10 10	W	—0°416	—0°429		22 12	G	—0°901	—0°912	
12 7	IF	—0°441			23 11	W	—0°926		
14 7	G	—0°471	—0°475	+1°324	25 16	CF	—0°908		
15 8	W	—0°479			28 1	G	—0°968	—0°977	
16 7	G	—0°490	—0°482		28 9	IF	—0°985		+1°440
17 9	W	—0°474			29 6	G	—1°010	—1°018	
18 9	CF	—0°444			30 7	IF	—1°025		
19 7	IF	—0°424	—0°431						
March 4 ^d 8 ^h . Strong wind; mercury very unsteady.									
March 21 ^d 12 ^h . Mercury unsteady.									
March 31. Instrument raised from its bearings; pivots cleaned and oiled.									
April 5. Counterpoises of friction-rollers adjusted to increase the weight on bearings.									

TABLE II.—*continued.*

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Asimuth-Error.	Date.	Observer.	Level-Error.		Adopted Asimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1864—cont.					1864—cont.				
May 2 ^d 17 ^h	G	—1'054	—1'058		June 22 ^d 15 ^h	CF	—1'284	—1'288	
3 8	IF	—1'062			24 16	CF	—1'299		
6 17	G	—1'097		+1'420	27 0	G	—1'313		+0'965
8 22	G	—1'103	—1'104		29 0	CF	—1'319	—1'319	
10 8	IF	—1'111			July 1 4	CF	—1'324		
11 22	G	—1'158			4 8	G	—1'175		
12 10	IF	—1'174	—1'166		4 22	G	—1'158	—1'160	+0'771
13 8	CF	—1'187		+1'443	5 6	CF	—1'146		
14 4	IF	—1'211	—1'199		6 6	G	—1'120		
16 17	G	—1'228			8 6	G	—1'089	—1'105	
17 10	IF	—1'240	—1'234		11 22	G	—0'995		
20 11	G	—1'231		+1'288	13 7	G	—0'952	—0'959	
21 10	W	—1'227	—1'231		14 8	CF	—0'930		+0'711
23 15	CF	—1'235			16 10	G	—0'878	—0'876	
24 15	CF	—1'248	—1'252	+1'235	17 11	G	—0'874		
25 17	G	—1'256			18 12	G	—0'858		
28 3	IF	—1'248			19 13	CF	—0'853	—0'853	
31 7	CF	—1'250	—1'250		20 14	G	—0'849		
June 1 7	CF	—1'253		+1'134	21 14	CF	—0'830		+0'672
2 7	G	—1'239			22 16	G	—0'832	—0'825	
3 6	CF	—1'247	—1'240		23 15	CF	—0'812		
6 22	CF	—1'235		+1'185	26 22	CF	—0'786		
8 19	G	—1'239			28 7	CF	—0'776	—0'777	
9 17	G	—1'240	—1'239	+1'138	29 8	G	—0'768		+0'577
10 6	CF	—1'237			Aug. 2 3	CF	—0'746		
13 6	CF	—1'276			3 6	CF	—0'737	—0'736	
16 22	G	—1'257	—1'267	+1'017	6 3	CF	—0'724		
18 10	CF	—1'263			8 6	G	—0'733		+0'447
19 12	G	—1'271	—1'271		9 4	CF	—0'725		
20 12	CF	—1'278		+0'969	11 3	CF	—0'723	—0'726	
21 15	G	—1'281			13 4	CF	—0'724		

July 21^d. 14^h. Mercury very unsteady.

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1864—cont.		"	"	"	1864—cont.		"	"	"
Aug. 14 ^d 9 ^h	G	—0°699			Oct. 26 ^d 1 ^h	CF	—0°421	—0°409	
15 10	CF	—0°699	—0°702		28 23	CF	—0°397		
16 12	G	—0°709		+0°399	31 22	CF	—0°387		
18 13	G	—0°714	—0°710		Nov. 1 23	G	—0°368	—0°379	+0°185
19 15	CF	—0°705			2 8	CF	—0°381		
21 16	CF	—0°675	—0°668		7 6	G	—0°374		
22 17	G	—0°660			8 23	CF	—0°373	—0°373	
25 4	CF	—0°651	—0°639		9 9	G	—0°371		
29 3	CF	—0°628		+0°413	10 9	CF	—0°365		
31 22	G	—0°587	—0°587		11 8	CF	—0°363	—0°360	
Sept. 7 22	CF	—0°551			12 11	G	—0°353		+0°114
9 19	G	—0°533	—0°539		15 4	CF	—0°348	—0°345	
12 3	CF	—0°534		+0°384	15 22	G	—0°342		
13 9	CF	—0°523	—0°530		16 16	IF	—0°334	—0°333	
14 11	G	—0°537			17 23	G	—0°332		
19 15	CF	—0°557			18 17	JS	—0°309		
21 3	CF	—0°543	—0°548		21 23	CF	—0°317	—0°310	
25 19	G	—0°545		+0°324	24 22	CF	—0°304		
28 23	CF	—0°509	—0°509		26 13	W	—0°286		+0°143
Oct. 3 22	CF	—0°479	—0°457	+0°264	29 23	CF	—0°305		
5 23	G	—0°435			Dec. 1 23	CF	—0°289		
7 4	CF	—0°414			3 2	JS	—0°285	—0°292	
9 22	G	—0°433	—0°425		6 22	G	—0°287		+0°235
10 8	CF	—0°427		+0°248	8 3	CF	—0°299		
11 23	G	—0°424			9 9	G	—0°282	—0°283	+0°309
14 23	CF	—0°409	—0°413		10 10	JS	—0°283		
19 22	CF	—0°416			13 23	G	—0°264	—0°258	
23 23	CF	—0°422	—0°423		15 22	CF	—0°252		
23 23	G	—0°424		+0°256	18 10	W	—0°258		+0°341
					20 3	CF	—0°275	—0°254	

September 25^d. 19^h. Mercury disturbed by wind.
November 29^d. 23^h. Mercury disturbed.

TABLE II.—*continued.**Level and Azimuth Errors of the Transit-Circle.*

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1864—cont.					1865—cont.				
Dec. ^d 22 ^h 23	CF	—0.229			Feb. ^d 13 ^h 14	CF	—0.852	—0.863	
28 23	CF	—0.262	—0.263	+0.526	14 14	G	—0.874		+1.523
29 23	CF	—0.263			15 17	CF	—0.914	—0.934	
31 0	JS	—0.258	—0.258	+0.598	17 22	CF	—0.954		
1865.					20 23	G	—1.029	—1.031	+1.623
Jan. 4 6	G	—0.292	—0.286	+0.632	21 17	CF	—1.032		
5 8	JS	—0.280			24 9	JS	—1.084	—1.112	+1.571
8 10	G	—0.323	—0.325	+0.781	25 16	CF	—1.140		
9 11	JS	—0.326			28 17	CF	—1.185	—1.185	+1.580
10 12	G	—0.339	—0.331		Mar. 3 14	G	—1.282	—1.288	
11 12	JS	—0.322			4 6	CF	—1.294		
12 13	G	—0.350	—0.364	+0.919	6 9	JS	—1.325	—1.344	
13 13	JS	—0.377			7 9	JS	—1.362		+1.630
14 15	G	—0.398	—0.403		9 11	G	—1.412	—1.420	
15 16	JS	—0.407			10 11	CF	—1.427		
17 17	JS	—0.417	—0.432		12 13	CF	—1.466	—1.513	
19 22	CF	—0.447			15 15	G	—1.559		
22 22	CF	—0.508		+1.057	17 22	G	—1.615	—1.630	+1.574
26 0	CF	—0.540	—0.531		18 18	JS	—1.644		
28 11	JS	—0.545			20 3	CF	—1.674	—1.704	
30 10	JS	—0.595	—0.607	+1.289	23 22	JS	—1.733		
31 10	JS	—0.619			27 4	JS	—1.801	—1.832	
Feb. 2 10	JS	—0.673	—0.681		29 3	CF	—1.863		
3 10	JS	—0.689		+1.521	31 22	CF	—1.909	—1.948	
6 10	JS	—0.711	—0.727		Apr. 2 23	CF	—1.986		
7 23	CF	—0.743			3 8	JS	—2.007	—2.021	+1.421
8 11	G	—0.764	—0.756		5 9	CF	—2.034		
9 3	CF	—0.748			6 22	G	—2.131		
10 13	G	—0.779	—0.780	+1.542	7 23	CF	—2.131	—2.138	
12 13	JS	—0.780			8 11	G	—2.153		

at the Royal Observatory, Cape of Good Hope, 1861-5. 17

TABLE II.—continued.

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1865—cont.		"	"	"	1865—cont.		"	"	"
Apr. ^d ^h 11 3	CF	-2°200	-2°237		June ^d ^h 8 23	JS	-2°056	-2°044	
12 13	G	-2°241			11 22	G	-2°031		
14 22	JS	-2°269			14 23	CF	-2°017		
16 17	G	-2°238	-2°226	+1°274	15 19	G	-2°014	-2°015	+0°630
17 22	CF	-2°214			18 23	CF	-2°022		
19 23	CF	-2°160			22 0	JS	-2°007		
19 23	JS	-2°155		+1°126	26 3	JS	-1°978	-1°972	+0°662
20 22	CF	-2°138	-2°152		28 22	CF	-1°965		
21 22	JS	-2°154			July 1 8	G	-1°956		
23 22	CF	-2°156			3 4	CF	-1°940	-1°956	+0°544
24 22	JS	-2°150			7 12	CF	-1°969		
25 22	CF	-2°140	-2°134	+1°017	9 22	JS	-1°959		
26 22	JS	-2°128			11 23	CF	-1°819	-1°805	
27 23	CF	-2°151	-2°153		12 4	JS	-1°790		
28 22	JS	-2°153			13 16	G	-1°746	-1°710	+0°770
30 22	CF	-2°154		+0°951	15 19	JS	-1°674		
May 1 23	JS	-2°160	-2°160		18 22	JS	-1°594	-1°568	+0°675
2 23	CF	-2°162			20 22	JS	-1°541		
3 22	JS	-2°158		+1°039	22 3	JS	-1°484	-1°466	
5 22	CF	-2°154	-2°155	+0°978	24 0	G	-1°448		+0°580
7 22	JS	-2°143			24 23	JS	-1°440	-1°422	
10 22	CF	-2°168			26 23	JS	-1°403		
14 23	G	-2°129		+0°878	28 22	JS	-1°364	-1°340	+0°560
17 23	CF	-2°148	-2°143		30 22	G	-1°316		
26 0	JS	-2°153			Aug. 1 3	JS	-1°287		
28 22	G	-2°102	-2°111		2 8	JS	-1°301	-1°292	
30 23	G	-2°119		+0°778	3 23	CF	-1°289		+0°530
June 2 0	JS	-2°089	-2°086		6 23	CF	-1°243	-1°247	
2 22	CF	-2°083			7 12	JS	-1°250		
5 19	G	-2°049	-2°064		9 23	JS	-1°198	-1°193	+0°441
6 3	CF	-2°079		+0°598	12 16	G	-1°187		
May 17 ^d 23 ^h , 26 ^d 0 ^h , June 28 ^d 22 ^h . Mercury very unsteady.									

TABLE II.—*continued.**Level and Azimuth Errors of the Transit-Circle.*

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1865— <i>cont.</i>		"	"	"	1865— <i>cont.</i>		"	"	"
Aug. 15 ^d 14 ^h	G	—1° 128	—1° 113		Oct. 6 ^d 0 ^h	JS	—0° 691	—0° 703	
18 2	JS	—1° 098		+0° 505	6 23	CF	—0° 701		
21 22	JS	—1° 083	—1° 083		8 16	JS	—0° 707		
25 23	CF	—1° 055	—1° 055	+0° 471	10 3	CF	—0° 701		
29 6	JS	—1° 005			11 3	JS	—0° 681	—0° 693	
30 7	JS	—1° 003			13 22	CF	—0° 697		
Sept. 1 3	CF	—0° 995	—1° 002	+0° 444	16 3	JS	—0° 656		+0° 348
2 9	JS	—1° 004			18 3	CF	—0° 660	—0° 658	
4 23	JS	—0° 973	—0° 970		19 4	JS	—0° 628	—0° 618	
6 4	CF	—0° 968		+0° 425	20 23	CF	—0° 608		
8 3	JS	—0° 956	—0° 956		23 4	JS	—0° 597	—0° 595	
9 3	JS	—0° 956			24 3	JS	—0° 592		
11 23	JS	—0° 940	—0° 942		26 4	CF	—0° 576		
12 23	CF	—0° 944			27 6	CF	—0° 562	—0° 559	
13 23	JS	—0° 915	—0° 901	+0° 411	28 7	JS	—0° 538		+0° 315
14 23	CF	—0° 887			31 3	CF	—0° 553		
15 23	JS	—0° 849	—0° 841		Nov. 1 11	G	—0° 546	—0° 549	
18 0	JS	—0° 833			2 3	CF	—0° 549		
19 3	CF	—0° 828	—0° 822	+0° 384	4 3	JS	—0° 546		
20 22	JS	—0° 815			7 17	G	—0° 573		
23 3	JS	—0° 828			8 4	JS	—0° 562	—0° 569	+0° 282
25 0	CF	—0° 837	—0° 826		10 0	JS	—0° 572		
25 23	JS	—0° 814			11 3	JS	—0° 596	—0° 595	
27 4	CF	—0° 806	—0° 802	+0° 397	13 3	G	—0° 594		
28 6	JS	—0° 797			15 6	JS	—0° 536	—0° 536	
30 9	JS	—0° 763	—0° 765		17 3	CF	—0° 536		
Oct. 2 22	JS	—0° 768			20 23	CF	—0° 523	—0° 520	+0° 225
3 4	JS	—0° 702			22 0	JS	—0° 518		
4 23	CF	—0° 713		+0° 361	23 22	G	—0° 510	—0° 510	
					25 7	JS	—0° 510		
					26 23	G	—0° 529	—0° 517	+0° 284

August 21^d. 22^h, 25^d. 23^h, 29^d. 6^h, October 28^d. 7^h. Mercury very unsteady.
 October 2^d. 22^h. Instrument raised from its bearings; pivots cleaned and oiled.

at the Royal Observatory, Cape of Good Hope, 1861-5. 19

TABLE II.—*continued.*

Level and Azimuth Errors of the Transit-Circle.

Date.	Observer.	Level-Error.		Adopted Azimuth-Error.	Date.	Observer.	Level-Error.		Adopted Azimuth-Error.
		Observed.	Adopted.				Observed.	Adopted.	
1865— <i>cont.</i>		s	s	s	1865— <i>cont.</i>		s	s	s
Nov. 30 22	G	—0° 505			Dec. 17 23	JS	—0° 519		
Dec. 2 3	JS	—0° 490	—0° 502	+0° 342	20 2	JS	—0° 543		
4 3	CF	—0° 513			21 11	JS	—0° 549	—0° 546	+0° 764
5 3	JS	—0° 500	—0° 508	+0° 417	23 2	JS	—0° 545		
6 3	CF	—0° 516			26 8	JS	—0° 597		
7 3	G	—0° 514	—0° 504	+0° 476	28 9	G	—0° 612	—0° 612	+0° 938
9 3	JS	—0° 493			29 10	JS	—0° 626		
14 4	CF	—0° 471	—0° 495	+0° 528					

Azimuth-Errors of the Transit-Circle,

TABLE III.

Azimuth-Errors of the Transit-Circle.

Date,	Determining Stars or Object.	Error of Azimuth.
1861.		
January 5	Meridian Mark.....	+ 0° 180
February 12 }	Two Consecutive Transits of β Hydri	+ 0° 558
13 }	Meridian Mark.....	+ 0° 670
15 }	Four Consecutive Transits of β Hydri	+ 0° 822
26 }		
27 }		
March 16	Meridian Mark.....	+ 0° 801
18	"	+ 0° 970
21	"	+ 0° 972
23	"	+ 0° 980
25	"	+ 0° 876
30	σ Octantis and α Scorpii	+ 0° 876
April 4 }	Four Consecutive Transits of β Hydri	+ 0° 994
6 }	Meridian Mark.....	+ 0° 972
7		
8 }	Five Consecutive Transits of β Hydri	+ 0° 974
10 }		
11	Meridian Mark.....	+ 0° 982
11 }	Three Consecutive Transits of β Hydri	+ 0° 990
12 }		
14 }	Two Consecutive Transits of β Hydri	+ 0° 980
15 }		
16 }	Four Consecutive Transits of β Hydri	+ 1° 051
17 }		
19	Meridian Mark.....	+ 0° 921
21 }	Two Consecutive Transits of β Hydri	+ 0° 977
22 }		
24 }	Two Consecutive Transits of β Hydri.....	+ 0° 978
25 }		
25	Two Consecutive Transits of A Octantis	+ 0° 934
27 }	Five Consecutive Transits of A Octantis	+ 0° 991
29 }		
27 }	Five Consecutive Transits of B Octantis	+ 0° 980
29 }		
May 5	Meridian Mark.....	+ 0° 918
5 }	Six Consecutive Transits of B Octantis.....	+ 0° 953
7 }		

TABLE III.—continued.

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1861—cont.		
May 7	Six Consecutive Transits of β Octantis.....	+ 0° 971
9		
15	Meridian Mark.....	+ 0° 797
17	Four Consecutive Transits of γ Octantis	+ 0° 784
18		
31	Meridian Mark.....	+ 0° 450
31	τ Octantis S.P. and δ Crateris	+ 0° 522
June 1	Meridian Mark.....	+ 0° 416
3	τ Octantis S.P. and δ Crateris	+ 0° 425
5	Two Consecutive Transits of τ Octantis	+ 0° 432
6		
7	Two Consecutive Transits of τ Octantis	+ 0° 430
8	Three Consecutive Transits of τ Octantis ..	+ 0° 430
9		
9	Meridian Mark.....	+ 0° 297
26	"	+ 0° 221
28	Three Consecutive Transits of σ Octantis	+ 0° 271
29	Three Consecutive Transits of Lacaille 5235	+ 0° 271
June 30	Two Consecutive Transits of Lacaille 5235	+ 0° 256
July 1		
13	Meridian Mark.....	+ 0° 152
13	Three Consecutive Transits of z Octantis	+ 0° 184
14		
15	Five Consecutive Transits of z Octantis.....	+ 0° 193
17		
17	Five Consecutive Transits of z Octantis.....	+ 0° 199
19		
August 3	σ Octantis and α Lyre	+ 0° 085
4	Meridian Mark.....	+ 0° 081
24	"	+ 0° 059
September 4	Four Consecutive Transits of B.A.C. 1587.....	+ 0° 020
6		
21	Meridian Mark.....	— 0° 014
23	"	— 0° 019
October 1	σ Octantis S.P. and ν Orionis	+ 0° 067
7	σ Octantis S.P. and ν Orionis	+ 0° 069
11	σ Octantis S.P. and ν Orionis	+ 0° 048

*Azimuth-Errors of the Transit-Circle,*TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1861— <i>cont.</i>		
October 14	Meridian Mark.....	+ 0°091
15	σ Octantis S.P. and ν Orionis	+ 0°067
21	σ Octantis S.P. and ν Orionis	+ 0°019
23	Meridian Mark.....	— 0°063
November 18	Meridian Mark.....	+ 0°001
December 3	σ Octantis S.P. and α Columbæ	+ 0°058
4	σ Octantis S.P. and α Columbæ	+ 0°102
6	σ Octantis S.P. and α Columbæ	+ 0°058
9	σ Octantis S.P. and α Columbæ	+ 0°047
10	σ Octantis S.P. and α Columbæ	+ 0°087
11	σ Octantis S.P. and α Columbæ	+ 0°106
14	σ Octantis S.P. and α Columbæ	+ 0°103
1862.		
January 25	Meridian Mark.....	+ 0°548
27 }	Six Consecutive Transits of β Hydri.....	+ 0°569
29 }		
February 8	Meridian Mark.....	+ 0°734
10	"	+ 0°828
February 28 }	Five Consecutive Transits of γ Hydri	+ 0°928
March 2 }		
1	Meridian Mark.....	+ 0°828
11 }	Six Consecutive Transits of γ Hydri	+ 1°059
14 }		
27	σ Octantis and μ Sagittarii	+ 0°979
29	Meridian Mark.....	+ 1°141
April 19	Meridian Mark.....	+ 0°940
25	"	+ 0°909
26	"	+ 0°887
28	"	+ 0°986
April 30 }	Six Consecutive Transits of β Hydri	+ 0°955
May 3 }		
5	Meridian Mark.....	+ 0°932

TABLE III.—*continued.*

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1862— <i>cont.</i>		
May 6	Meridian Mark.....	+ 0° 906
9	Two Consecutive Transits of β Hydri.....	+ 0° 883
11 }	Three Consecutive Transits of β Hydri.....	+ 0° 870
12 }		
13	Meridian Mark.....	+ 0° 783
14	"	+ 0° 836
14	"	+ 0° 866
18 }	Three Consecutive Transits of C Octantis.....	+ 0° 904
19 }		
20 }	Four Consecutive Transits of C Octantis	+ 0° 899
22 }		
23	Meridian Mark.....	+ 0° 791
May 28 }	Sixteen Consecutive Transits of γ Octantis	+ 0° 832
June 4 }		
May 30	Meridian Mark.....	+ 0° 658
June 4 }	Four Consecutive Transits of γ Octantis	+ 0° 903
6 }		
12	Meridian Mark.....	+ 0° 595
19	"	+ 0° 719
20	"	+ 0° 562
29	"	+ 0° 434
30	"	+ 0° 411
July 3	Meridian Mark.....	+ 0° 290
5	"	+ 0° 376
8	"	+ 0° 289
11	"	+ 0° 274
12	"	+ 0° 250
14	"	+ 0° 197
17	"	+ 0° 172
20	"	+ 0° 268
21	"	+ 0° 245
24	"	+ 0° 178
30	"	+ 0° 114
August 4	Meridian Mark.....	+ 0° 227
6	"	+ 0° 161

TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1862— <i>cont.</i>		s
August 14	Meridian Mark.....	+ 0°195
19	"	+ 0°102
23	Two Consecutive Transits of B.A.C. 5412.....	+ 0°210
25	Two Consecutive Transits of B.A.C. 5412.....	+ 0°208
25 } 26 }	Three Consecutive Transits of B.A.C. 1454	+ 0°181
30	Three Consecutive Transits of B.A.C. 5412	+ 0°199
31	Three Consecutive Transits of B.A.C. 1454	+ 0°179
September 5	Meridian Mark.....	+ 0°221
15	"	+ 0°160
15	"	+ 0°044
23	"	+ 0°108
24	"	+ 0°003
30	"	+ 0°089
30	"	+ 0°063
October 2	Meridian Mark.....	+ 0°074
3	"	+ 0°051
4	"	+ 0°022
18	"	0°000
20	"	+ 0°144
28	"	+ 0°023
November 14	Meridian Mark.....	+ 0°015
25	"	+ 0°046
26	"	+ 0°041
27	"	+ 0°064
28	"	+ 0°050
December 4 } 5 }	Four Consecutive Transits of β Hydri	— 0°011
9 } 10 }	Two Consecutive Transits of β Hydri	— 0°004
18 } 19 }	Three Consecutive Transits of β Hydri	— 0°042
22	Two Consecutive Transits of β Hydri.....	— 0°032

TABLE III.—continued.

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1863.		s
January 8	Two Consecutive Transits of β Hydri	+ 0° 030
14	β Hydri and α Scorpii.....	+ 0° 097
26	Meridian Mark.....	+ 0° 205
February 13	B Octantis S.P. and Clock-Error	+ 0° 741
17	B Octantis S.P. and Clock Error	+ 0° 718
17	A Octantis and Clock-Error	+ 0° 686
21	B Octantis S.P. and Clock-Error	+ 0° 789
21	A Octantis and Clock-Error	+ 0° 772
23	Meridian Mark.....	+ 0° 742
24	"	+ 0° 753
25	"	+ 0° 758
25	B Octantis S.P. and Clock-Error	+ 0° 945
25	A Octantis and Clock-Error	+ 0° 901
28	B Octantis S.P. and Clock-Error	+ 0° 924
28	A Octantis and Clock-Error	+ 0° 866
March 3	B Octantis S.P. and Clock-Error	+ 1° 001
3	A Octantis and Clock-Error	+ 0° 947
3	Meridian Mark.....	+ 0° 831
13	"	+ 0° 895
20	"	+ 1° 023
22	"	+ 0° 999
23	"	+ 0° 964
23	A Octantis and Clock-Error	+ 1° 109
25	Meridian Mark.....	+ 1° 024
26	"	+ 0° 990
27	"	+ 0° 971
29	σ Octantis and α Ophiuchi	+ 0° 964
31	Meridian Mark.....	+ 0° 947
April 1	σ Octantis and Clock-Error	+ 0° 971
1	Meridian Mark.....	+ 0° 934
5	"	+ 0° 915
8	"	+ 0° 876

TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1863— <i>cont.</i>		s
April 9	Meridian Mark.....	+ 0° 902
15	σ Octantis and α Ophiuchi.....	+ 0° 754
20	σ Octantis and Clock-Error	+ 0° 720
21	Meridian Mark.....	+ 0° 720
22	σ Octantis and Clock-Error	+ 0° 782
22	Meridian Mark.....	+ 0° 643
24	σ Octantis and Clock-Error	+ 0° 703
24	Meridian Mark.....	+ 0° 604
25	σ Octantis and α Ophiuchi	+ 0° 737
27	σ Octantis and α Ophiuchi	+ 0° 716
27 } 28 }	Four Consecutive Transits of A Octantis	+ 0° 799
27 } 28 }	Four Consecutive Transits of B Octantis	+ 0° 777
28 } 30 }	Five Consecutive Transits of A Octantis	+ 0° 757
28 } 30 }	Five Consecutive Transits of B Octantis	+ 0° 765
29	σ Octantis and Clock-Error	+ 0° 728
May		
3 } 4 }	Two Consecutive Transits of B Octantis	+ 0° 616
4	Meridian Mark.....	+ 0° 634
11 } 12 }	Three Consecutive Transits of B.A.C. 7384	+ 0° 525
11 } 13 }	Six Consecutive Transits of B Octantis	+ 0° 510
13	Meridian Mark.....	+ 0° 439
18	Two Consecutive Transits of ζ Octantis	+ 0° 416
18 } 19 }	Two Consecutive Transits of C Octantis	+ 0° 455
19	Meridian Mark.....	+ 0° 326
20 } 21 }	Three Consecutive Transits of C Octantis.....	+ 0° 455
22	Meridian Mark.....	+ 0° 345
23 } 24 }	Two Consecutive Transits of C Octantis	+ 0° 395
27 } 28 }	Three Consecutive Transits of C Octantis.....	+ 0° 376
29	Meridian Mark.....	+ 0° 292

TABLE III.—continued.

Azimuth-Errors of the Transit-Circle.

Date.		Determining Stars or Object.	Error of Azimuth.
1863—cont.			s
June	1	Meridian Mark.....	+ 0° 327
	11	"	+ 0° 224
	10 } 12 }	Four Consecutive Transits of γ Octantis	+ 0° 270
	12 } 14 }	Four Consecutive Transits of γ Octantis	+ 0° 261
	17	Meridian Mark.....	+ 0° 217
	22	"	+ 0° 195
July	2	Two Consecutive Transits of β Hydri	+ 0° 218
	3	Meridian Mark.....	+ 0° 195
	9 } 10 }	Three Consecutive Transits of Lacaille 5235	+ 0° 230
	11	Meridian Mark.....	+ 0° 196
	16	Two Consecutive Transits of z Octantis	+ 0° 204
	17	Meridian Mark.....	+ 0° 188
	17	"	+ 0° 151
	23	"	+ 0° 141
	28 } 29 }	Two Consecutive Transits of z Octantis	+ 0° 162
	30	Meridian Mark.....	+ 0° 202
	30	Two Consecutive Transits of z Octantis	+ 0° 192
August	31 }	Five Consecutive Transits of z Octantis	+ 0° 159
	2 }	Five Consecutive Transits of z Octantis	+ 0° 140
	4 }	Four Consecutive Transits of B.A.C. 5412.....	+ 0° 190
	25 } 26 }	Four Consecutive Transits of B.A.C. 1454.....	+ 0° 198
	26 }	Meridian Mark.....	+ 0° 098
September	7	σ Octantis and μ Sagittarii	+ 0° 113
	12	σ Octantis and λ^2 Sagittarii	+ 0° 118
	12	Meridian Mark.....	+ 0° 039
	15	σ Octantis and μ Sagittarii	+ 0° 096
	16	σ Octantis and μ Sagittarii	+ 0° 065
	17	σ Octantis and μ Sagittarii	+ 0° 095

*Azimuth-Errors of the Transit-Circle,*TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1863— <i>cont.</i>		
September 18	σ Octantis and μ Sagittarii	+ 0°041
19	σ Octantis and μ Sagittarii	+ 0°139
23	σ Octantis S.P. and μ Geminorum	+ 0°123
27	Meridian Mark.....	+ 0°046
October 1	Meridian Mark.....	+ 0°004
9	Two Consecutive Transits of β Hydri	+ 0°104
12	Meridian Mark.....	+ 0°022
November 1	Meridian Mark.....	+ 0°054
2	"	+ 0°058
2	Two Consecutive Transits of β Hydri	(— 0°237)
12	Two Consecutive Transits of β Hydri	+ 0°053
15	Meridian Mark.....	+ 0°007
16	"	+ 0°025
1864.		
January 7	Meridian Mark.....	+ 0°103
8	"	+ 0°051
8 } 9 }	Three Consecutive Transits of β Hydri	+ 0°169
11 } 13 }	Five Consecutive Transits of β Hydri.....	+ 0°237
12	Meridian Mark.....	+ 0°244
February 2	σ Octantis S.P. and α Orionis	+ 0°646
5	σ Octantis S.P. and α Orionis	+ 0°605
6	σ Octantis S.P. and α Orionis	+ 0°659
9	σ Octantis S.P. and α Orionis	+ 0°695
10	σ Octantis S.P. and α Orionis	+ 0°734
12	σ Octantis S.P. and α Orionis	+ 0°736
16	σ Octantis S.P. and α Orionis	+ 0°811
17	σ Octantis S.P. and α Orionis	+ 0°766
19	σ Octantis S.P. and α Orionis	+ 0°798
20	σ Octantis S.P. and α Orionis	+ 0°935
27	σ Octantis S.P. and α Orionis	+ 1°141
29	σ Octantis S.P. and α Orionis	+ 1°089

TABLE III.—*continued.*

Azimuth-Errors of the Transit-Circle.

Date.		Determining Stars or Object.	Error of Azimuth.
1864— <i>cont.</i>			
March	2	σ Octantis S.P. and α Orionis	+ 1'064
	4	σ Octantis S.P. and α Orionis	+ 1'135
	7	σ Octantis S.P. and ν Orionis	+ 1'184
	8	τ Octantis S.P. and δ Crateris	+ 1'237
	10	τ Octantis S.P. and δ Crateris	+ 1'296
	12	τ Octantis S.P. and δ Crateris	+ 1'293
	15	τ Octantis S.P. and δ Crateris	+ 1'383
	22	τ Octantis S.P. and δ Crateris	+ 1'343
	27	σ Octantis and α Ophiuchi	+ 1'385
	29	τ Octantis S.P. and δ Crateris	+ 1'485
April	2	Meridian Mark.....	+ 1'477
	7	"	+ 1'386
	9	"	+ 1'179
	9	τ Octantis S.P. and δ Crateris	+ 1'354
	11	τ Octantis S.P. and δ Crateris	+ 1'313
	12	τ Octantis S.P. and ϵ Corvi	+ 1'338
	12 }	Seven Consecutive Transits of β Hydri.....	+ 1'359
	15 }		
	13	τ Octantis S.P. and δ Crateris	+ 1'296
	14	τ Octantis S.P. and δ Crateris	+ 1'348
	16	τ Octantis S.P. and δ Crateris	+ 1'324
	17 }	Three Consecutive Transits of β Hydri	+ 1'295
	18 }		
	20 }	Seven Consecutive Transits of β Hydri	+ 1'383
	23 }		
	22	Meridian Mark.....	+ 1'174
	26	"	+ 1'382
	27 }	Five Consecutive Transits of β Hydri	+ 1'438
	29 }		
	28 }	Four Consecutive Transits of β Octantis	+ 1'440
	29 }		
May	2	Two Consecutive Transits of β Hydri.....	+ 1'591
	5	Meridian Mark	+ 1'369
	9	"	+ 1'301
	11 }	Three Consecutive Transits of β Hydri	+ 1'443
	12 }		
	12	Meridian Mark.....	+ 1'498

TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.		Determining Stars or Object.	Error of Azimuth.
1864— <i>cont.</i>			
May	17	Meridian Mark	+ 1' 310
	20	"	+ 1' 266
	25	Two Consecutive Transits of β Hydri	+ 1' 241
	25	Two Consecutive Transits of ϵ Octantis	+ 1' 234
	26	Meridian Mark.....	+ 1' 167
	27	"	+ 1' 100
	30	"	+ 1' 085
June	1 } 3 }	Four Consecutive Transits of τ Octantis	+ 1' 134
	2	Meridian Mark	+ 1' 235
	4	Two Consecutive Transits of τ Octantis	+ 1' 185
	6	Meridian Mark.....	+ 1' 041
	7	"	+ 1' 038
	8 } 10 }	Six Consecutive Transits of τ Octantis	+ 1' 138
	12	Meridian Mark.....	+ 1' 050
	15	"	+ 1' 033
	16	"	+ 1' 034
	16	"	+ 0' 985
	20 } 21 }	Three Consecutive Transits of σ Octantis ..	+ 0' 981
	20 } 22 }	Four Consecutive Transits of Lacaille 5235	+ 0' 957
	22	Meridian Mark.....	+ 0' 824
	23 } 24 }	Three Consecutive Transits of Lacaille 5235.....	+ 0' 965
	24	Meridian Mark.....	+ 0' 880
	29	"	+ 0' 801
	30	"	+ 0' 717
July	3	Meridian Mark.....	+ 0' 824
	5 } 6 }	Three Consecutive Transits of Lacaille 5235.....	+ 0' 771
	10	Meridian Mark	+ 0' 652
	11	"	+ 0' 661
	17 } 18 }	Two Consecutive Transits of z Octantis	+ 0' 711
	20 } 22 }	Five Consecutive Transits of z Octantis	+ 0' 672

TABLE III.—*continued.*

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1854— <i>cont.</i>		
July 25	Meridian Mark.....	+ 0'445
26	"	+ 0'474
28 }	Two Consecutive Transits of α Octantis.....	+ 0'577
29 }		
August 2	Meridian Mark.....	+ 0'509
4	"	+ 0'488
6	"	+ 0'436
8	"	+ 0'417
15	"	+ 0'399
16	Two Consecutive Transits of B.A.C. 1454	+ 0'399
17	Meridian Mark.....	+ 0'304
23	"	+ 0'349
26	"	+ 0'349
30 }	Three Consecutive Transits of B.A.C. 1454	+ 0'413
31 }		
31	Meridian Mark.....	+ 0'344
September 1	Meridian Mark.....	+ 0'305
5	"	+ 0'246
12	"	+ 0'286
14	"	+ 0'354
14	Two Consecutive Transits of σ Octantis	+ 0'384
27	Meridian Mark.....	+ 0'294
October 4	Two Consecutive Transits of β Argûs	+ 0'264
9	Two Consecutive Transits of β Argûs	+ 0'248
12	Meridian Mark.....	+ 0'264
13	"	+ 0'195
19	"	+ 0'209
21	Two Consecutive Transits of β Argûs	+ 0'229
23 }	Three Consecutive Transits of β Argûs.....	+ 0'242
24 }		
26	Two Consecutive Transits of β Argûs	+ 0'312
November 9	Two Consecutive Transits of β Hydri	+ 0'114
11	Meridian Mark.....	+ 0'115
15	"	+ 0'116

TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1864—cont.		
December 2 } 3 }	Three Consecutive Transits of β Hydri.....	+ 0° 143
5 } 6 }	Three Consecutive Transits of β Hydri.....	+ 0° 235
7	Two Consecutive Transits of β Hydri	+ 0° 309
20	Two Consecutive Transits of β Hydri	+ 0° 341
27 } 28 }	Three Consecutive Transits of β Hydri.....	+ 0° 526
29 } 30 }	Three Consecutive Transits of β Hydri.....	+ 0° 598
1865.		
January 4	Meridian Mark.....	+ 0° 603
4 } 5 }	Three Consecutive Transits of β Hydri.....	+ 0° 632
5 } 6 }	Three Consecutive Transits of β Hydri	+ 0° 781
23	Meridian Mark..	+ 1° 087
24	„	+ 1° 026
February 3	σ Octantis S.P. and α Columbæ	+ 1° 586
4	σ Octantis S.P. and α Columbæ	+ 1° 479
6	σ Octantis S.P. and α Columbæ	+ 1° 499
9	σ Octantis S.P. and Clock-Error	+ 1° 507
10	σ Octantis S.P. and Clock-Error	+ 1° 576
13	σ Octantis S.P. and ν Orionis	+ 1° 542
14	σ Octantis S.P. and ν Orionis	+ 1° 468
17	σ Octantis S.P. and ν Orionis	+ 1° 577
20	σ Octantis S.P. and ν Orionis	+ 1° 619
22	σ Octantis S.P. and ν Orionis	+ 1° 627
23	σ Octantis S.P. and ν Orionis	+ 1° 568
24	σ Octantis S.P. and ν Orionis	+ 1° 574
27	Meridian Mark	+ 1° 524
28	„	+ 1° 572
28	σ Octantis S.P. and ν Orionis	+ 1° 611
March 10	σ Octantis S.P. and ν Orionis	+ 1° 638
13	Meridian Mark	+ 1° 622
20	Two Consecutive Transits of σ Octantis	+ 1° 574
21	Meridian Mark.....	+ 1° 655
26	„	+ 1° 411

TABLE III.--continued.

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1865--cont.		
April		
4	Meridian Mark.....	+ 1°380
6	Three Consecutive Transits of B.A.C. 6801	+ 1°385
7		
7	Three Consecutive Transits of B.A.C. 6801	+ 1°457
9		
20	Three Consecutive Transits of B.A.C. 6801	+ 1°150
21		
20	Three Consecutive Transits of B.A.C. 6859	+ 1°113
21		
20	Three Consecutive Transits of B.A.C. 6900	+ 1°132
21		
24	Two Consecutive Transits of B.A.C. 6801	+ 1°027
24	Two Consecutive Transits of B.A.C. 6859	+ 1°007
24	Two Consecutive Transits of B.A.C. 6900	+ 1°027
26	Meridian Mark.	+ 0°925
28	"	+ 0°924
May		
1	Meridian Mark.....	+ 0°981
1	Two Consecutive Transits of A Octantis	+ 0°936
1	Four Consecutive Transits of B Octantis	+ 0°955
2		
3	Meridian Mark.....	+ 0°926
3	Two Consecutive Transits of A Octantis	+ 1°050
4		
3	Two Consecutive Transits of B Octantis	+ 1°034
4		
5	Two Consecutive Transits of B Octantis	+ 0°978
10	Meridian Mark.....	+ 0°937
11	"	+ 0°954
29	"	+ 0°694
30	Two Consecutive Transits of γ Octantis.....	+ 0°744
31		
31	Meridian Mark.....	+ 0°675
June		
1	Three Consecutive Transits of γ Octantis	+ 0°807
2		
3	Two Consecutive Transits of γ Octantis.....	+ 0°753
5	Four Consecutive Transits of γ Octantis	+ 0°598
7		
8	Meridian Mark.....	+ 0°586
11	"	+ 0°672
15	"	+ 0°647

*Azimuth-Errors of the Transit-Circle,*TABLE III.—*continued.**Azimuth-Errors of the Transit-Circle.*

Date.	Determining Stars or Object.	Error of Azimuth.
1865— <i>cont.</i>		"
June 16	Meridian Mark.....	+ 0.671
19	".....	+ 0.642
22 } 23 }	Two Consecutive Transits of α Octantis	+ 0.656
22 } 23 }	Two Consecutive Transits of Lacaille 5235	+ 0.667
July 4	Meridian Mark.....	+ 0.529
6	".....	+ 0.589
10	".....	+ 0.508
11	".....	+ 0.548
13 } 14 }	Four Consecutive Transits of β Hydri	+ 0.770
17	Meridian Mark.....	+ 0.690
18	".....	+ 0.686
19	".....	+ 0.665
20	".....	+ 0.681
21 } 23 }	Six Consecutive Transits of α Octantis	+ 0.580
24	Meridian Mark	+ 0.566
25	".....	+ 0.563
27	".....	+ 0.561
28	".....	+ 0.560
August 3	Meridian Mark.....	+ 0.533
5	".....	+ 0.526
12	".....	+ 0.484
14	".....	+ 0.407
14	".....	+ 0.425
15	".....	+ 0.446
18 } 19 }	Three Consecutive Transits of B.A.C. 5412	+ 0.505
22	Meridian Mark.....	+ 0.473
23 } 25 }	Five Consecutive Transits of B.A.C. 1454	+ 0.478
25	Two Consecutive Transits of B.A.C. 5439	+ 0.445
30 } 31 }	Two Consecutive Transits of B.A.C. 5439	+ 0.491
30 } 31 }	Two Consecutive Transits of B.A.C. 1454	+ 0.479
31	Meridian Mark.....	+ 0.446

TABLE III.—concluded.

Azimuth-Errors of the Transit-Circle.

Date.	Determining Stars or Object.	Error of Azimuth.
1865—cont.		
September 1	Two Consecutive Transits of B.A.C. 1454	+ 0°359
4	Meridian Mark.....	+ 0°421
4 } 5 }	Two Consecutive Transits of B.A.C. 5439	+ 0°429
13 } 14 }	Three Consecutive Transits of B.A.C. 5936	+ 0°411
14	Meridian Mark.....	+ 0°324
19 } 20 }	Two Consecutive Transits of σ Octantis	+ 0°384
24	Two Consecutive Transits of σ Octantis	+ 0°397
25	Meridian Mark.....	+ 0°435
29	"	+ 0°419
October 5	Meridian Mark.....	+ 0°328
5	"	+ 0°394
11	Two Consecutive Transits of β Hydri	+ 0°363
16	Meridian Mark.....	+ 0°270
17 } 18 }	Two Consecutive Transits of β Hydri	+ 0°334
18	Meridian Mark.....	+ 0°248
25	"	+ 0°241
November 3	Meridian Mark.....	+ 0°250
8 } 9 }	Two Consecutive Transits of β Hydri	+ 0°273
10	Two Consecutive Transits of β Hydri	+ 0°290
20 } 21 }	Four Consecutive Transits of β Hydri	+ 0°225
25	Meridian Mark.....	+ 0°283
December 1 } 2 }	Two Consecutive Transits of β Hydri	+ 0°342
5 } 6 }	Four Consecutive Transits of β Hydri	+ 0°417
10 } 12 }	Four Consecutive Transits of β Hydri	+ 0°476
14	Two Consecutive Transits of β Hydri	+ 0°528
14	Meridian Mark.....	+ 0°510
28 } 29 }	Three Consecutive Transits of β Hydri.....	+ 0°938

Rates of Transit-Clock,

TABLE IV.

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1861.	s	1861-cont.	s	1861-cont.	s	1861-cont.	s
Jan. 1	+0.10	Mar. 19	+0.09	Apr. 29	+0.04	July 13	+1.12
4	+0.11	20	+0.18	May 5	+0.05	14	+0.98
16	+0.22	21	+0.08	6	+0.08	15	+0.93
19	+0.19	22	+0.17	7	+0.18	16	+1.02
21	+0.15	23	+0.24	8	+0.21	17	+1.01
23	+0.19	24	+0.23	9	+0.12	18	+0.95
24	+0.15	26	+0.32	10	+0.01	19	+0.96
25	+0.08	27	+0.22	16	-0.11	25	+0.82
26	+0.12	28	+0.10	17	-0.15	Aug. 12	+0.68
28	+0.12	29	+0.17	18	-0.19	13	+0.74
29	+0.17	30	+0.22	19	-0.21	14	+0.80
31	+0.12	Apr. 1	+0.11	22	-0.18	16	+0.71
Feb. 1	+0.02	3	+0.08	24	0.00	18	+0.64
2	+0.12	5	-0.04	25	+0.14	19	+0.56
7	+0.17	6	-0.08	30	-0.21	21	+0.62
8	+0.19	8	-0.09	June 8	+2.52	23	+0.77
12	+0.13	9	-0.01	9	+2.53	24	+0.74
13	+0.08	10	+0.05	15	+2.93	25	+0.56
14	+0.07	11	+0.15	17	+1.43	26	+0.58
15	+0.10	12	+0.13	19	+1.58	27	+0.70
18	+0.04	14	+0.04	22	+1.70	28	+0.59
19	+0.01	15	+0.06	23	+1.44	30	+0.48
20	+0.01	16	+0.10	24	+1.39	Sept. 4	-2.30
21	-0.05	17	+0.12	28	+1.40	5	-2.25
24	+0.01	18	+0.12	29	+1.28	6	-2.25
25	-0.01	21	+0.09	30	+1.15	9	-2.30
26	+0.08	22	+0.12	July 1	+1.00	13	-2.32
27	+0.22	24	+0.04	2	+1.01	14	-2.18
Mar. 1	+0.25	25	-0.03	11	+1.03	15	-2.24
2	+0.25	27	-0.03	12	+1.13	16	-2.36
18	0.00	28	0.00			17	-2.35

1861. May 18. Clock stopped in winding. May 26-28. Clock stopped for alterations.
 June 7. Clock tripping; weight increased.
 June 15. Small weight placed on pendulum cistern-lid.
 September 1-3. Clock stopped in winding; taken down and cleaned.
 September 19. Clock tripping. Contact-springs raised, and two threepenny-pieces removed from cistern-lid.

TABLE IV.—*continued.*

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1861-cont.	s	1861-cont.	s	1862-cont.	s	1862-cont.	s
Sept. 21	+1'12	Nov. 23	+0'31	Jan. 12	+0'19	Mar. 14	+0'09
23	+1'11	24	+0'27	13	+0'18	16	—0'03
Oct. 8	0'00	25	+0'19	14	+0'17	18	+0'05
10	—0'01	26	+0'37	15	+0'27	19	—0'11
11	—0'02	28	+0'32	16	+0'31	20	—0'07
12	0'00	Dec. 3	+0'21	17	+0'31	21	—0'10
13	—0'05	4	+0'18	18	+0'20	22	—0'09
14	—0'04	5	+0'18	19	+0'16	30	+0'50
15	+0'09	6	+0'19	21	+0'16	Apr. 2	+1'70
16	+0'09	7	+0'21	22	+0'13	3	+1'70
17	+0'02	8	+0'23	23	+0'10	7	+1'60
19	+0'05	9	+0'24	24	+0'14	8	+1'62
21	+0'01	10	+0'20	26	+0'14	9	+1'61
25	—0'02	11	+0'25	27	+0'11	10	+1'61
30	+0'01	13	+0'37	28	—0'02	12	+1'63
31	—0'05	14	+0'31	29	—0'05	30	+0'51
Nov. 6	—0'05	15	+0'30	31	+0'02	May 1	+0'54
7	—0'09	16	+0'18	Feb. 4	+0'08	2	+0'58
8	—0'06	17	+0'25	6	+0'06	3	+0'59
		18	+0'37	8	+0'05	8	+0'57
10	+0'18	20	+0'33	9	+0'07	9	+0'62
11	+0'20	21	+0'33	10	+0'07	10	+0'68
13	+0'25	22	+0'27	11	—0'01	11	+0'74
14	+0'29	23	+0'30	12	—0'07	12	+0'69
15	+0'24	1862.		14	+0'04	13	+0'69
16	+0'23	Jan. 4	+0'51	15	+0'07	15	+0'77
17	+0'22	7	+0'41	16	+0'03	16	+0'81
18	+0'24	8	+0'34	Mar. 10	—0'14	17	+0'68
19	+0'29	9	+0'26	11	—0'10	18	+0'66
21	+0'33	10	+0'21	12	—0'15	19	+0'73
22	+0'27	11	+0'20	13	—0'02		

1861 October 4. Driving weight increased 1½ lbs. and contact-springs adjusted.
 November 9^d. 22^h. Contact-springs removed; those formerly in use inserted.
 1862 March 17. Chronograph brought into use.
 March 24. Clock taken down and cleaned.
 March 29. A weight of 40 grains removed from cistern-lid.
 April 1. Clock dismounted and examined; a penny placed on cistern-lid.
 April 13. A threepenny-piece placed on cistern-lid.
 April 23. A halfpenny removed from, and a threepenny-piece placed on, cistern-lid.

*Rates of Transit-Clock,*TABLE IV.—*continued.**Rates of Transit-Clock.*

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1862—cont.	"	1862—cont.	"	1862—cont.	"	1863.	"
May 20	+0·79	July 24	+0·51	Nov. 7	—0·16	Jan. 1	—0·09
21	+0·86	25	+0·46	9	—0·16	2	—0·04
22	+0·86	30	+0·58	22	—0·18	4	+0·01
28	—0·88	Aug. 3	+0·60	23	—0·16	5	—0·03
29	—0·84	6	+0·60	24	—0·13	6	—0·07
30	—0·74	11	+0·60	25	—0·08	7	—0·18
31	—0·72	30	+0·06	26	—0·04	8	—0·18
June 1	—0·78	31	0·00	27	—0·08	9	—0·19
2	—0·59	Sept. 2	+0·02	28	—0·12	10	—0·25
3	—0·47	3	+0·08	29	—0·16	12	—0·25
4	—0·32	4	+0·08	30	—0·20	13	—0·27
5	—0·32	8	+0·06	Dec. 1	—0·20	14	—0·28
6	—1·10	9	0·00	2	—0·20	15	—0·28
12	—1·10	10	—0·05	4	—0·45	16	—0·25
19	—1·10	11	—0·10	5	—0·45	17	—0·25
28	+0·25	12	—0·13	6	—0·33	21	—0·11
July 1	+0·70	13	—0·15	7	—0·20	23	—0·09
2	+0·64	14	—0·15	8	—0·11	24	—0·29
5	+0·81	18	—0·29	10	0·00	26	—0·23
6	+0·77	Oct. 1	—0·26	11	—0·40	27	—0·14
7	+0·70	2	—0·26	12	—0·30	28	—0·17
8	+0·63	3	—0·26	14	—0·24	30	—0·18
9	+0·70	5	—0·28	15	—0·19	Feb. 2	—0·09
10	+0·70	13	—0·41	16	—0·18	3	—0·09
12	+0·78	28	—0·17	18	—0·06	4	—0·02
16	+0·74	31	—0·16	19	+0·01	5	—0·01
17	+0·55	Nov. 1	—0·16	22	+0·05	8	+0·02
18	+0·45	2	—0·09	28	—0·44	9	+0·02
21	+0·59	4	—0·04	29	—0·34	10	+0·06
23	+0·64	6	—0·10	30	—0·25	11	0·00
				31	—0·14	13	—0·05

1862 May 24. Weights removed from cistern-lid, and three bronze halfpennies substituted.

June 5. Clock stopped several seconds during examination of the galvanic connecting piece.

June 25. A farthing substituted for a halfpenny on the cistern-lid.

August 16. A threepenny-piece placed on cistern-lid, and the contact-springs adjusted.

September 9. Contact-springs adjusted. December 3. Clock adjusted for beat.

TABLE IV.—*continued.*

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1863-cont.	"	1863-cont.	"	1863-cont.	"	1863-cont.	"
Feb. 16	—0·11	Apr. 15	—0·60	June 3	—0·56	July 31	—0·65
17	—0·06	16	—0·66	4	—0·53	Aug. 1	—0·68
18	—0·07	20	—0·66	6	—0·53	3	—0·80
19	—0·05	21	—0·66	7	—0·53	4	—0·80
20	—0·05	23	—0·66	10	—0·53	5	—0·80
21	—0·04	24	—0·67	11	—0·45	10	—0·56
25	—0·01	25	—0·76	12	—0·38	12	—0·56
26	—0·64	26	—0·72	13	—0·38	18	—0·90
27	—0·57	27	—0·65	14	—0·38	19	—0·90
28	—0·50	28	—0·57	19	—0·38	24	—0·77
Mar. 1	—0·28	29	—0·62	24	—0·70	25	—0·77
2	—0·22	30	—0·68	27	—0·70	26	—0·72
3	—0·22	May 3	—0·63	28	—0·63	28	—0·75
4	—0·22	4	—0·63	29	—0·48	31	—0·76
5	—0·22	8	—0·63	30	—0·39	Sept. 1	—0·83
7	—0·46	9	—0·61	July 1	—0·38	2	—0·92
12	—0·58	10	—0·60	2	—0·43	3	—1·06
13	—0·70	11	—0·59	5	—0·64	4	—0·97
14	—0·77	12	—0·56	6	—0·63	5	—0·97
16	—0·80	13	—0·56	8	—0·55	7	—0·88
17	—0·80	18	—0·56	9	—0·47	8	—0·88
18	—0·80	19	—0·52	10	—0·52	11	—0·93
23	—0·50	20	—0·58	13	—0·62	12	—0·99
24	—0·50	21	—0·62	14	—0·61	14	—0·97
27	—0·50	23	—0·66	16	—0·61	15	—1·00
28	—0·50	24	—0·64	24	—0·46	16	—1·02
29	—0·50	25	—0·62	25	—0·40	18	—0·93
Apr. 1	—0·50	26	—0·60	26	—0·33	19	—0·93
4	—0·50	27	—0·57	28	—0·33	23	—0·95
7	—0·50	28	—0·54	29	—0·37	24	—0·95
8	—0·50	30	—0·59	30	—0·37	25	—0·95

Rates of Transit-Clock,

TABLE IV.—continued.

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1863—cont.	"	1863—cont.	"	1864—cont.	"	1864—cont.	"
Oct. 1	—0·99	Dec. 27	—0·22	Feb. 27	—0·17	Apr. 23	—0·16
2	—0·99	28	—0·07	29	—0·25	24	—0·16
5	—0·99	30	—0·07	Mar. 2	—0·29	25	—0·35
6	—0·91			3	—0·25	27	—0·35
7	—0·89	1864.		4	—0·25	28	—0·34
8	—0·90					29	—0·34
9	—0·90	Jan. 8	+0·04	7	—0·04	30	—0·40
10	—0·90	9	+0·04	8	—0·04	May 2	—0·40
12	—0·90	11	+0·05	15	—0·04	11	—0·66
22	—1·12	12	—0·02	16	+0·05	12	—0·69
23	—1·12	13	—0·04	17	+0·18	13	—0·69
		17	+0·04	18	+0·16	16	—0·75
24	—0·30	18	+0·05	19	+0·16	17	—0·78
25	—0·30	19	+0·03	20	+0·06	20	—0·70
Nov. 2	—0·35	20	0·00	21	+0·01	21	—0·70
11	—0·33	22	+0·01	22	—0·07	23	—0·70
12	—0·32	24	+0·01	23	—0·18	24	—0·63
16	—0·37	26	+0·01	24	—0·18	25	—0·63
17	—0·40	28	+0·06	27	—0·22		
22	—0·43	29	+0·06	28	—0·38	June 2	+0·08
		30	+0·06	Apr. 9	—0·24	3	+0·13
25	+0·85	Feb. 10	—0·10	12	—0·32	5	+0·32
26	+0·82	15	—0·08	13	—0·40	8	+0·63
27	+0·72	16	—0·09	14	—0·41	9	+0·63
28	+0·62	17	—0·19	15	—0·35	10	+0·63
29	+0·44	18	—0·19	16	—0·22	17	+0·41
Dec. 18	—0·70	19	—0·19	17	—0·14	18	+0·40
20	—0·70	20	—0·19	18	—0·22	19	+0·37
22	—0·63	21	—0·19	19	—0·29	20	+0·37
23	—0·63	24	—0·06	20	—0·14	21	+0·35
24	—0·49	25	—0·06	21	—0·06	22	+0·34
25	—0·49	26	—0·12	22	0·00	23	+0·49

1863 October 24. A threepenny-piece removed from cistern-lid.

November 24. A farthing removed from, and a threepenny-piece placed on. cistern-lid.

1864 March 6. Contact-springs removed and cleaned.

June 1. Small weight removed from pendulum.

TABLE IV.—continued.

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1864—cont.	"	1864—cont.	"	1864—cont.	"	1865—cont.	"
June 24	+0.39	Sept. 2	—0.11	Dec. 8	—0.19	Jan. 20	+1.86
28	+0.12	8	+0.12	9	—0.19	29	—1.00
July 4	+0.40	9	+0.12	10	—0.17	30	—0.86
10	+0.21	13	+0.10	11	—0.15	31	—0.93
12	+0.33	14	+0.12	12	—0.18	Feb. 2	—2.06
13	+0.41	15	+0.05	13	—0.18	3	—2.14
14	+0.35	18	+0.05	14	—0.22	4	—2.33
15	+0.35	19	+0.05	17	—0.33	5	—1.64
16	+0.35	23	+0.05	18	—0.33	6	—1.66
17	—0.02	25	+0.08	23	—0.29	7	—1.59
18	—0.22	26	+0.12	27	—0.29	8	—1.43
19	—0.20	Oct. 4	+0.35	28	—0.18	9	—1.36
20	—0.32	5	+0.35	29	—0.18	10	—1.36
21	—0.55	9	+0.32	30	—0.18	12	—0.37
22	—0.62	10	+0.32			13	—0.37
23	—0.62	11	+0.32			14	—0.46
29	—0.59	14	+0.32	1865.		15	—0.58
Aug. 3	—0.66	16	+0.32	Jan. 4	—0.06	17	—0.61
8	—0.18	24	+0.25	5	—0.08	20	—0.73
9	—0.24	Nov. 7	+0.22	6	—0.11	21	—0.71
10	—0.24	8	+0.40	7	—0.16	22	—0.70
14	—0.16	9	+0.47	8	—0.16	23	—0.72
15	—0.04	11	+0.39	9	—0.09	24	—0.72
16	—0.04	12	+0.31	10	—0.01	25	—0.33
18	—0.08	16	+0.24	11	+0.02	28	—0.33
19	—0.06	17	+0.24	12	+0.05	Mar. 2	—0.05
21	—0.07	Dec. 2	—0.10	13	—0.06	3	—0.16
22	—0.07	3	—0.12	14	—0.13	4	—0.26
28	—0.14	5	—0.17	15	—0.13	5	—0.28
30	—0.03	6	—0.23	17	+1.86	6	—0.22
31	—0.07	7	—0.19	18	+1.86		

1864 July 17. Small weight added to pendulum.

August 6. Ten grains removed from cistern-lid.

1865 January 22. A piece of lead was placed on cistern-lid.

January 26. A fourpenny-piece was placed on cistern-lid.

February 4. Weight-cord shortened, and a fourpenny-piece removed from cistern-lid.

February 12. A small weight removed from cistern-lid.

*Rates of Transit-Clock,*TABLE IV.—*continued.**Rates of Transit-Clock.*

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1865—cont.	"	1865—cont.	"	1865—cont.	"	1865—cont.	"
Mar. 7	—0·29	Apr. 20	—0·39	June 6	—1·22	July 23	—1·17
8	—0·36	21	—0·41	7	—1·21	24	—1·17
9	—0·61	22	—0·45	8	—1·10	26	—1·06
10	—0·51	23	—0·36	11	—1·46	28	—0·94
12	—0·45	24	—0·28	12	—1·43	29	—0·75
13	—0·41	25	—0·27	13	—1·38	Aug. 1	—0·61
14	—0·49	27	—0·10	14	—1·38	2	—0·45
15	—0·43	28	—0·17	15	—1·38	3	—0·45
16	—0·09	May 1	—0·11	16	—1·41	5	—0·43
17	—0·09	2	—0·05	19	—1·41	7	—0·26
18	—0·48	3	+1·04	21	—1·44	9	—0·13
19	—0·48	4	+0·50	22	—1·43	12	—0·13
20	—1·25	5	+0·21	25	—0·71	15	—0·10
21	—1·25	6	+0·12	26	—0·71	17	—0·01
27	—0·04	7	+0·12	27	—0·72	18	—0·03
28	—0·26	8	+0·19	28	—0·77	19	—0·04
29	—0·55	9	+0·24	29	—0·81	23	—0·04
30	—0·57	10	+0·16	30	—0·81	24	—0·15
Apr. 2	—0·53	11	+0·16	July 7	—0·36	25	—0·15
3	—0·51	16	+0·15	9	—0·45	29	—0·12
5	—0·51	21	—0·78	10	—0·58	30	—0·12
6	—0·50	22	—0·80	11	—0·66	31	—0·17
7	—0·34	26	—0·80	12	—0·82	Sept. 1	—0·19
8	—0·13	28	—0·88	13	—0·98	2	—0·23
10	—0·13	30	—1·05	14	—1·13	4	—0·25
11	—0·28	31	—1·20	15	—1·21	5	—0·25
12	—0·36	June 1	—1·23	16	—1·29	6	—0·25
15	—0·43	2	—1·26	17	—1·29	8	—0·27
16	—0·43	3	—1·36	18	—1·26	10	—0·30
17	—0·45	4	—1·44	21	—1·30	11	—0·14
18	—0·45	5	—1·34	22	—1·25	12	—0·10

1865 May 2. Contact-springs adjusted.

June—July. Several notes "clock tripping."

TABLE IV.—concluded.

Rates of Transit-Clock.

Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.	Date.	Adopted Daily Losing Rate.
1865-cont.	s	1865-cont.	s	1865-cont.	s	1865-cont.	s
Sept. 13	—0'10	Oct. 6	0'00	Nov. 17	—0'12	Dec. 10	+0'02
14	—0'12	8	0'00	20	—0'12	11	+0'07
15	—0'14	17	—0'21	21	—0'15	12	+0'08
19	—0'22	18	—0'21	24	—0'20	13	+0'05
20	—0'23	20	—0'18	25	—0'20	14	+0'03
21	—0'23	23	—0'15	26	+0'04	15	—0'03
23	—0'20	27	—0'13	27	+0'09	17	—0'10
24	—0'22	28	—0'17	28	+0'11	18	—0'01
25	—0'24	31	—0'17	29	+0'08	19	+0'09
27	—0'15	Nov. 1	—0'17	30	+0'08	20	+0'06
28	—0'08	7	—0'18	Dec. 1	+0'03	21	+0'08
29	—0'19	8	—0'13	2	0'00	22	+0'09
30	—0'19	9	—0'06	4	0'00	26	+0'06
Oct. 1	—0'21	10	+0'03	5	+0'06	28	—0'37
4	—0'19	12	+0'01	6	+0'06	29	—0'37
5	—0'19	15	—0'08	8	+0'06		

1865 December 27. Weight-cord broke. Clock restarted at 22^h 19^m. sidereal time.

TABLE V.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1861.				1861—cont.			
d h		o r		d h		o r	
January 6 22	G	230 4·816		March 17 22	G	170 4·824	
		240 4·815				180 4·822	
		250 4·812				190 4·823	
13 22	G	260 4·816		24 22	G	200 4·818	
		270 4·824				210 4·820	
		280 4·821				220 4·820	
20 22	G	290 4·814		April 1 23	G	230 4·825	
		300 4·823				240 4·827	
		310 4·819				250 4·824	
27 23	G	320 4·821		7 22	G	260 4·826	
		330 4·825				270 4·827	
		340 4·819				280 4·828	
February 3 22	G	350 4·816		15 0	G	290 4·823	
		0 4·811				300 4·821	
		10 4·817				310 4·821	
10 22	G	20 4·812		21 22	G	320 4·818	
		30 4·813				330 4·823	
		40 4·816				340 4·822	
17 22	G	50 4·825		28 22	G	350 4·821	
		60 4·826				0 4·820	
		70 4·822				10 4·823	
24 22	G	80 4·814		May 5 23	G	20 4·822	
		90 4·822				30 4·822	
		100 4·821				40 4·817	
March 3 22	G	110 4·814		12 23	G	50 4·823	
		120 4·819				60 4·822	
		130 4·823				70 4·820	
11 3	G	140 4·816		20 22	G	80 4·823	
		150 4·815				90 4·822	
		160 4·813				100 4·823	

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1861—cont. d h		o r		1861—cont. d h		o r	
May 26 22	G	110 120 130	4·823 4·822 4·827	August 4 22	G	50 60 70	4·816 4·815 4·821
June 3 3	G	140 150 160	4·822 4·817 4·827	13 3	G	80 90 100	4·815 4·812 4·818
9 22	G	170 180 190	4·822 4·821 4·821	18 23	G	110 120 130	4·824 4·817 4·821
16 22	G	200 210 220	4·810 4·822 4·815	25 22	G	140 150 160	4·815 4·816 4·817
23 22	G	230 240 250	4·816 4·823 4·824	September 8 22	G	170 180 190	4·817 4·821 4·813
July 1 22	G	260 270 280	4·812 4·825 4·816	17 22	G	200 210 220	4·819 4·818 4·820
7 22	G	290 300 310	4·820 4·813 4·816	22 23	G	230 240 250	4·824 4·823 4·824
14 22	G	320 330 340	4·818 4·820 4·824	29 22	G	260 270 280	4·819 4·820 4·822
21 22	G	350 o 10	4·818 4·816 4·820	October 6 23	G	290 300 310	4·817 4·819 4·809
28 22	G	20 30 40	4·819 4·815 4·816	13 22	G	320 330 340	4·809 4·816 4·825

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1861—cont. d h		o r		1862. d h		o r	
October 22 3	G	350	4·809	January 5 22	G	290	4·813
		o	4·814			300	4·819
		10	4·822			310	4·820
November 3 23	G	20	4·814	12 22	G	320	4·814
		30	4·809			330	4·813
		40	4·808			340	4·818
10 22	G	50	4·814	13 3	G	350	4·824
		60	4·811			o	4·808
		70	4·814			10	4·825
17 22	G	80	4·814	19 22	G	20	4·823
		90	4·815			30	4·813
		100	4·817			40	4·822
24 22	G	110	4·811	26 22	G	50	4·815
		120	4·815			60	4·817
		130	4·819			70	4·816
December 1 22	G	140	4·816	February 3 3	G	80	4·817
		150	4·817			90	4·812
		160	4·812			100	4·816
8 22	G	170	4·813	9 23	G	110	4·812
		180	4·810			120	4·825
		190	4·817			130	4·814
15 22	G	200	4·813	17 o	G	140	4·812
		210	4·813			150	4·819
		220	4·808			160	4·812
22 22	G	230	4·817	23 22	G	170	4·817
		240	4·814			180	4·815
		250	4·816			190	4·820
29 22	G	260	4·824	March 2 22	G	200	4·819
		270	4·819			210	4·814
		280	4·818			220	4·814

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1862—cont. d h				1862—cont. d h			
March	10 22	G	230 4·820	May	18 22	G	170 4·820
		240 4·810	180 4·822				
		250 4·817	190 4·816				
	16 22	G	260 4·819		26 3	G	200 4·820
		270 4·818	210 4·818				
		280 4·817	220 4·815				
	23 23	G	290 4·815	June	1 23	G	230 4·821
		300 4·819	240 4·821				
		310 4·824	250 4·820				
	30 22	G	320 4·802		9 23	G	260 4·818
		330 4·817	270 4·821				
		340 4·824	280 4·816				
April	6 22	G	350 4·818	15 22	G	290 4·825	
		0 4·821	300 4·819				
		10 4·820	310 4·817				
	13 23	G	20 4·813		22 22	G	320 4·815
		30 4·825	330 4·815				
		40 4·818	340 4·814				
	21 22	G	50 4·821	29 22	G	350 4·814	
		60 4·819	0 4·813				
		70 4·811	10 4·815				
	27 23	G	80 4·813	July	6 22	G	20 4·817
		90 4·814	30 4·818				
		100 4·820	40 4·818				
May	4 22	G	110 4·823		13 22	G	50 4·811
		120 4·822	60 4·810				
		130 4·816	70 4·811				
	11 23	G	140 4·816	21 0	G	80 4·816	
			150 4·819			90 4·815	
			160 4·821			100 4·821	

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1862—cont.				1862—cont.			
		o	r			o	r
July 28 3	G	110	4·820	September 3 22	G	350	4·811
		120	4·823			0	4·812
		130	4·820			10	4·818
August 4 0	G	140	4·810	4 22	G	20	4·812
		150	4·819			30	4·809
		160	4·823			40	4·814
10 23	G	170	4·815	5 22	G	50	4·815
		180	4·815			60	4·812
		190	4·817			70	4·810
17 22	G	200	4·815	7 22	G	80	4·807
		210	4·819			90	4·813
		220	4·821			100	4·811
19 22	G	230	4·816	8 22	G	110	4·818
		240	4·823			120	4·816
		250	4·821			130	4·814
22 23	W	90	4·824	9 22	G	140	4·816
		90	4·820			150	4·815
		90	4·820			160	4·810
		90	4·817	10 22	G	170	4·813
24 23	G	260	4·819			180	4·818
		270	4·818			190	4·814
		280	4·815	11 22	G	200	4·815
30 0	W	180	4·820			210	4·810
		180	4·822			220	4·813
		180	4·821	12 22	G	230	4·811
September 1 22	G	290	4·822			240	4·817
		300	4·815			250	4·816
		310	4·823	14 22	G	260	4·814
2 22	G	320	4·810			270	4·817
		330	4·826			280	4·826
		340	4·820				

August 22^d 23^h, 30^d 0^h. Runs taken over the divisions used in determining the value of a revolution of the Z.D. micrometer-screw.

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1862—cont. d h		o r		1862—cont. d h		o r	
September 16 21	G	290 300 310	4·819 4·820 4·822	October 3 0	G	230 240 250	4·807 4·813 4·820
17 22	G	320 330 340	4·816 4·813 4·811	5 22	G	260 270 280	4·813 4·813 4·816
18 21	G	350 0 10	4·817 4·817 4·815	6 23	G	290 300 310	4·811 4·816 4·812
19 21	G	20 30 40	4·816 4·814 4·813	10 22	G	320 330 340	4·814 4·814 4·815
22 3	G	50 60 70	4·809 4·812 4·815	12 22	G	350 0 10	4·813 4·809 4·820
23 22	G	80 90 100	4·816 4·815 4·817	13 23	G	20 30 40	4·817 4·817 4·815
24 22	G	110 120 130	4·816 4·820 4·818	15 23	G	50 60 70	4·820 4·814 4·822
25 22	G	140 150 160	4·815 4·815 4·813	17 22	G	80 90 100	4·809 4·813 4·819
28 22	G	170 180 190	4·820 4·818 4·807	19 23	G	110 120 130	4·816 4·814 4·817
October 1 0	G	200 210 220	4·819 4·816 4·815	21 1	G	140 150 160	4·816 4·818 4·814

TABLE V.—*continued.*

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1862—cont. d h				1862—cont. d h			
October 22 22	G	o	r	November 3 22	G	o	r
		170	4·814			110	4·810
		180	4·820			120	4·815
23 22	G	190	4·819	9 22	G	130	4·817
		200	4·817			140	4·825
		210	4·821			150	4·822
24 22	G	220	4·816	16 22	G	160	4·823
		230	4·815			170	4·818
		240	4·811			180	4·819
26 22	G	250	4·812	23 22	G	190	4·825
		260	4·811			200	4·829
		270	4·817			210	4·826
27 22	G	280	4·819	30 22	G	220	4·828
		290	4·815			230	4·820
		300	4·814	December 7 22	G	240	4·829
28 22	G	310	4·821			250	4·823
		320	4·817			260	4·819
29 22	G	330	4·818	14 22	G	270	4·824
		340	4·818			280	4·825
		350	4·818	21 23	G	290	4·818
30 22	G	o	4·814			300	4·830
		10	4·820			310	4·825
31 21	G	20	4·814	30 o	OF	320	4·823
		30	4·816			330	4·829
		40	4·815			340	4·820
November 2 23	G	50	4·821			350	4·829
		60	4·813			o	4·823
		70	4·814			10	4·832
		80	4·814				
		90	4·814				
		100	4·816				

at the Royal Observatory, Cape of Good Hope, 1861-5. 51

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date	Observer.	Pointer Reading.	Mean Run.
1863. d h		o r		1863—cont. d h		o r	
January 4 22	G	20	4·824	March 15 0	G	320	4·823
		30	4·823			330	4·827
		40	4·823			340	4·822
11 23	G	50	4·825	22 0	G	350	4·829
		60	4·825			0	4·823
		70	4·825			10	4·823
18 22	G	80	4·824	24 23	G	20	4·821
		90	4·822			30	4·821
		100	4·820			40	4·824
25 22	G	110	4·831	29 23	G	50	4·826
		120	4·828			60	4·817
		130	4·827			70	4·821
February 1 22	G	140	4·826	April 6 22	G	80	4·822
		150	4·826			90	4·821
		160	4·824			100	4·823
9 0	G	170	4·826	12 23	G	110	4·824
		180	4·823			120	4·824
		190	4·823			130	4·821
17 3	G	200	4·827	19 22	G	140	4·820
		210	4·826			150	4·827
		220	4·824			160	4·821
22 22	G	230	4·830	26 0	G	170	4·826
		240	4·821			180	4·822
		250	4·827			190	4·825
March 1 23	G	260	4·823	May 4 23	G	200	4·823
		270	4·827			210	4·825
		280	4·830			220	4·824
8 22	G	290	4·826	10 22	G	230	4·825
		300	4·823			240	4·827
		310	4·823			250	4·823

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1863—cont. d h				1863—cont. d h			
May	17 23	G	o	July	19 22	G	r
			260 4·822				170 4·825
			270 4·825				180 4·827
			280 4·826				190 4·829
	25 22	G	290 4·825	26 22	G	200 4·824	
			300 4·823			210 4·827	
			310 4·825			220 4·824	
	31 22	G	320 4·827	August 2 21	G	230 4·825	
			330 4·831			240 4·820	
			340 4·829			250 4·823	
June	7 22	G	350 4·828	10 0	G	260 4·827	
			0 4·824			270 4·824	
			10 4·822			280 4·825	
	14 23	G	20 4·820	16 22	G	290 4·824	
			30 4·825			300 4·823	
			40 4·826			310 4·822	
	21 22	G	50 4·824	23 23	G	320 4·822	
			60 4·825			330 4·821	
			70 4·826			340 4·826	
	29 0	G	80 4·822	30 22	G	350 4·823	
			90 4·822			0 4·823	
			100 4·827			10 4·822	
July	5 22	G	110 4·822	September 6 22	G	20 4·823	
			120 4·826			30 4·822	
			130 4·824			40 4·824	
	13 0	G	140 4·825	13 22	G	50 4·822	
			150 4·816			60 4·821	
			160 4·816			70 4·825	
	13 3	G	140 4·823	20 22	G	80 4·819	
			150 4·826			90 4·822	
			160 4·829			100 4·820	

TABLE V.—*continued.*

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.		
1863— <i>cont.</i> d h				1863— <i>cont.</i> d h					
September 27	G	o	r	November 22	G	o	r		
		110	4·824			320	4·822		
		120	4·824			330	4·825		
October 4	G	130	4·827	29	G	340	4·819		
		140	4·822			350	4·823		
		150	4·825			o	4·819		
11	G	160	4·823	December 6	G	10	4·820		
		170	4·819			20	4·823		
		180	4·825			30	4·825		
23	W	190	4·823	14	G	40	4·824		
		270	4·823			50	4·824		
		270	4·829			60	4·826		
25	G	270	4·819	20	G	70	4·821		
		270	4·827			80	4·824		
		90	4·817			90	4·827		
November 1	G	90	4·824	27	G	100	4·829		
		90	4·824			110	4·820		
		90	4·825			120	4·824		
8	G	200	4·824	1864.	G	130	4·823		
		210	4·822			January 5	140	4·824	
		220	4·822				150	4·825	
15	G	230	4·826	10	G		160	4·823	
		240	4·828			17	G	170	4·822
		250	4·826					180	4·817
October 23.	G	260	4·821	190	G			190	4·827
		270	4·823			200	4·825		
		280	4·824				210	4·826	
300	G	290	4·825	220	G			220	4·825
		300	4·821						
		310	4·826						

October 23. Runs taken over the divisions used in determining the intervals of the new system of R.A. wires.

October 23. Runs taken over the divisions used in determining the intervals of the new system of R.A. wires.

*Mean Run of the Microscope-Micrometers,*TABLE V.—*continued.**Mean Run of the Microscope-Micrometers of the Transit-Circle.*

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1864— <i>cont.</i> d h				1864— <i>cont.</i> d h			
January 24 22	G	o	r	April 3 22	G	o	r
		230	4·822			170	4·828
		240	4·824			180	4·822
31 22	G	250	4·825	10 22	G	190	4·823
		260	4·820			200	4·827
		270	4·820			210	4·826
February 7 22	G	280	4·811	17 23	G	220	4·821
		290	4·824			230	4·827
		300	4·823			240	4·826
14 21	G	310	4·821	24 22	G	250	4·825
		320	4·820			260	4·823
		330	4·825	May 1 23	G	270	4·820
21 22	G	340	4·822			280	4·826
		350	4·821			290	4·825
28 22	G	o	4·823	8 22	G	300	4·825
		10	4·825			310	4·826
		20	4·820	16 23	G	320	4·820
March 6 22	G	30	4·825			330	4·823
		40	4·822			340	4·825
		50	4·826	22 23	G	350	4·826
13 22	G	60	4·826			o	4·820
		70	4·825			10	4·826
		80	4·823	29 22	G	20	4·822
20 23	G	90	4·825			30	4·825
		100	4·824			40	4·829
28 22	G	110	4·823	June 5 22	G	50	4·825
		120	4·822			60	4·823
		130	4·827			70	4·824
		140	4·823			80	4·822
		150	4·823			90	4·825
		160	4·822			100	4·825

March 31. Microscope object-glasses cleaned and adjusted so as to render the readings more accordant.

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1864—cont. d h				1864—cont. d h			
June 13 22	G	o	r	A u 21 22	G	o	r
		110	4·822			50	4·823
		120	4·825			60	4·823
20 0	G	130	4·826	28 22	G	70	4·824
		140	4·825			80	4·827
		150	4·823			90	4·828
26 23	G	160	4·826	September 4 22	G	100	4·826
		170	4·826			110	4·823
		180	4·825			120	4·825
July 3 22	G	190	4·826	11 22	G	130	4·826
		200	4·822			140	4·826
		210	4·823			150	4·825
10 22	G	220	4·825	18 22	G	160	4·827
		230	4·823			170	4·824
		240	4·826			180	4·826
17 22	G	250	4·826	25 22	G	190	4·825
		260	4·823			200	4·824
		270	4·822			210	4·825
24 23	G	280	4·827	October 2 22	G	220	4·825
		290	4·824			230	4·828
		300	4·826			240	4·826
31 22	G	310	4·825	9 22	G	250	4·830
		320	4·826			260	4·821
		330	4·824			270	4·820
August 7 22	G	340	4·824	17 0	G	280	4·826
		350	4·827			290	4·825
		0	4·821			300	4·823
14 22	G	10	4·824	23 22	G	310	4·830
		20	4·822			320	4·825
		30	4·825			330	4·828
		40	4·825			340	4·826

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1864—cont.				1865.			
		o	r			o	r
October 30 22	G	350	4·823	January 3 22	G	260	4·824
		o	4·825			270	4·825
		10	4·825			280	4·825
November 6 23	G	20	4·822	8 23	G	290	4·830
		30	4·824			300	4·827
		40	4·823			310	4·827
13 22	G	50	4·828	15 o	G	320	4·823
		60	4·823			330	4·826
		70	4·822			340	4·828
20 22	G	80	4·824	22 23	G	350	4·827
		90	4·822			o	4·823
		100	4·826			10	4·829
27 23	G	110	4·825	29 22	G	20	4·824
		120	4·824			30	4·824
		130	4·825			40	4·825
December 4 23	G	140	4·825	February 5 22	G	50	4·830
		150	4·822			60	4·823
		160	4·825			70	4·827
11 23	G	170	4·828	12 22	G	80	4·825
		180	4·820			90	4·821
		190	4·825			100	4·827
18 o	G	200	4·824	19 22	G	110	4·822
		210	4·830			120	4·826
		220	4·824			130	4·826
26 23	CF	230	4·825	26 22	G	140	4·826
		240	4·826			150	4·826
		250	4·827			160	4·827
				March 5 22	G	170	4·828
						180	4·823
						190	4·828

TABLE V.—*continued.*

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1865— <i>cont.</i> d h				1865— <i>cont.</i> d h			
March	G	o	r	May	G	o	r
		12 23	200 4·823			22 3	140 4·824
			210 4·828				150 4·824
			220 4·826				160 4·824
19 22	G		230 4·830	28 22	G		170 4·826
			240 4·825				180 4·825
			250 4·826				190 4·831
26 22	G		260 4·823	June	G		200 4·826
			270 4·818			5 0	210 4·827
			280 4·810				220 4·828
April	G		290 4·828	11 0	G		230 4·823
			300 4·826				240 4·826
			310 4·829				250 4·822
9 22	G		320 4·822	18 23	G		260 4·825
			330 4·824				270 4·831
			340 4·828				280 4·828
17 23	G		350 4·829	25 23	G		290 4·829
			0 4·827				300 4·827
			10 4·825				310 4·831
23 22	G		20 4·827	July	G		320 4·827
			30 4·829				330 4·822
			40 4·822				340 4·824
30 22	G		50 4·821	9 23	G		350 4·822
			60 4·823				0 4·821
			70 4·828				10 4·826
May	G		80 4·823	16 22	G		20 4·821
			90 4·828				30 4·820
			100 4·829				40 4·827
14 22	G		110 4·831	23 22	G		50 4·820
			120 4·827				60 4·821
			130 4·827				70 4·821

TABLE V.—continued.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1865—cont.				1865—cont.			
		o	r			o	r
July 30 22	G	80	4·821	October 4 23	G	20	4·813
		90	4·823			30	4·824
		100	4·823			40	4·820
August 6 23	G	110	4·824	8 21	G	50	4·825
		120	4·820			60	4·823
		130	4·824			70	4·825
13 23	G	140	4·821	15 22	G	80	4·825
		150	4·818			90	4·824
		160	4·824			100	4·827
20 22	G	170	4·824	22 23	G	110	4·828
		180	4·823			120	4·818
		190	4·823			130	4·822
27 23	G	200	4·821	29 22	G	140	4·827
		210	4·824			150	4·821
		220	4·823			160	4·819
September 3 23	G	230	4·824	November 5 23	G	170	4·823
		240	4·823			180	4·819
		250	4·823			190	4·827
10 23	G	260	4·827	12 22	G	200	4·823
		270	4·819			210	4·825
		280	4·822			220	4·828
17 22	G	290	4·822	19 23	G	230	4·826
		300	4·823			240	4·826
		310	4·822			250	4·828
24 23	G	320	4·821	26 22	G	260	4·826
		330	4·824			270	4·830
		340	4·823			280	4·827
October 1 22	G	350	4·824				
		0	4·824				
		10	4·823				

TABLE V.—concluded.

Mean Run of the Microscope-Micrometers of the Transit-Circle.

Date.	Observer.	Pointer Reading.	Mean Run.	Date.	Observer.	Pointer Reading.	Mean Run.
1865—cont. d h		o	r	1865—cont. d h		o	r
December 3 23	G	290	4·825	December 17 22	G	350	4·825
		300	4·827			0	4·820
		310	4·821			10	4·827
10 22	G	320	4·824	25 22	G	20	4·826
		330	4·823			30	4·825
		340	4·822			40	4·822

Nadir-Points of the Transit-Circle,

TABLE VI.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1861.				1861—cont.			
d h				d h			
Jan. 1 23	W	12.74	12.66	Mar. 29 15	G	19.29	
21 7	C	13.66		30 16	W	19.12	
23 9	C	13.72	13.80	Apr. 1 23	W	19.45	
24 9	G	13.91		3 11	C	19.57	
25 12	C	13.91		5 12	C	19.57	19.57
26 13	G	14.29		6 12	G	19.54	
27 13	W	14.09		8 11	C	19.70	
28 15	C	(13.42)	14.39	9 11	G	19.35	
29 15	G	14.29		10 11	C	19.25	
31 18	G	14.58		12 23	C	19.33	19.41
Feb. 1 18	G	14.69		13 11	G	19.58	
7 19	T	15.56	15.49	15 10	C	19.54	
8 22	C	15.41		16 11	G	19.62	
12 23	C	15.92	15.96	17 11	C	19.93	19.77
13 11	T	15.99		18 18	G	19.97	
19 9	G	16.58		22 10	C	19.54	
20 9	C	16.75	16.77	24 11	C	19.47	
21 10	G	16.97		25 11	G	19.92	
24 12	W	17.21		27 10	G	19.57	19.60
25 13	C	17.21	17.35	28 16	G	19.56	
26 14	G	17.51		29 10	C	19.46	
27 14	C	17.48		May 5 10	G	19.34	
Mar. 1 17	C	17.61	17.76	6 10	C	18.90	
2 18	G	17.90		7 10	G	19.10	19.10
18 22	C	19.01		8 10	C	18.98	
20 7	C	19.28	19.06	9 10	G	19.16	
21 8	G	18.99		14 9	G	18.74	18.94
22 9	C	18.96		16 9	G	19.13	
23 11	G	19.06		17 9	C	19.82	19.97
24 11	W	19.32		18 9	G	20.11	
26 13	W	19.29	19.17	22 10	C	19.87	
27 14	G	18.93		24 11	C	19.95	19.80

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1861— <i>cont.</i>				1861— <i>cont.</i>			
	d h				d h		
May 25	14	G	19°58	July 25	16	G	13°40
30	22	G	18°86	30	23	C	13°00
31	10	C	18°28	Aug. 1	10	W	13°10
June 3	10	C	17°72	3	10	W	13°16
5	10	C	17°58	6	23	C	13°18
6	10	W	17°21	12	4	C	13°10
7	9	C	16°83	13	6	G	12°81
8	19	W	17°04	14	7	C	12°84
10	10	C	16°85	16	9	C	13°05
15	10	W	15°70	19	12	C	13°32
17	9	C	15°33	23	15	C	13°52
19	10	C	14°81	24	16	G	13°63
21	9	C	14°62	26	17	C	13°11
22	13	W	14°65	27	22	G	13°11
23	14	W	14°55	Sept. 9	4	C	12°59
24	15	C	14°40	13	8	C	12°78
28	8	C	13°91	14	9	G	12°76
29	7	G	13°93	16	10	C	12°67
July 1	8	C	14°14	17	11	G	12°84
2	9	G	14°13	21	15	G	13°03
3	9	C	13°91	28	2	C	12°73
5	9	C	13°99	Oct. 3	17	G	12°66
8	8	C	13°35	7	16	G	12°52
9	9	G	13°74	10	8	W	12°56
11	9	G	13°84	11	6	G	12°52
12	10	C	13°71	12	9	W	12°44
13	8	W	13°73	14	9	G	12°37
15	7	C	13°52	15	11	W	12°39
16	18	G	14°03	16	10	G	12°81
17	8	C	13°56	17	11	W	12°59
18	9	G	13°59	18	13	G	12°39
19	10	C	13°32	19	12	W	12°39

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1862— <i>cont.</i>				1862— <i>cont.</i>			
d h				d h			
Feb. 27 16	G	20°45		May 10 10	G	20°21	20°21
28 18	G	20°17	20°29	11 11	W	20°05	
Mar. 1 16	G	20°26		12 11	G	20°13	
5 17	G	20°76	20°76	15 13	W	20°01	
10 8	W	21°13		16 16	G	19°84	19°91
11 8	G	21°06		17 17	W	19°88	
12 9	W	20°96	21°07	18 18	G	19°90	
13 10	G	21°10		19 19	W	19°72	19°70
14 11	W	21°08		20 22	G	19°47	
17 22	G	21°22		28 22	G	19°09	
18 16	W	21°03		29 22	G	18°93	19°01
19 17	W	21°03	21°08	30 22	G	19°01	
20 17	W	20°91		June 2 22	G	18°52	
21 18	W	21°21		3 22	G	18°93	
27 19	G	21°80		4 23	G	18°87	18°74
30 22	G	21°94	21°85	5 7	W	18°76	
Apr. 2 16	G	21°74		6 7	G	18°64	
3 16	G	21°93		12 12	G	18°64	18°69
7 7	G	21°67		19 22	G	18°73	
8 8	W	21°66	21°74	28 0	G	16°41	16°41
9 21	G	21°84		July 4 6	G	15°29	
10 10	W	21°79		5 9	W	15°29	
12 12	W	21°77	21°77	6 7	G	15°14	15°18
13 12	G	21°79		7 8	W	15°13	
14 13	W	21°74		8 10	G	15°04	
19 18	G	21°31	21°31	9 12	W	14°73	
20 19	W	21°30		10 12	G	14°88	14°84
27 22	G	20°88		12 14	G	14°91	
May 1 22	G	20°62	20°71	17 18	W	14°72	
2 22	G	20°62		18 18	G	14°74	14°73
8 8	G	20°36		30 10	W	15°12	
9 10	W	20°29				29°48	

July 28-30. Z.D. wire plate removed ; two wires, distant apart about 14", inserted.

Nadir-Points of the Transit-Circle,

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1862—cont. d h				1862—cont. d h			
Aug. 3 22	G	15°06	15°08	Sept. 8 11	G	14°77	
		29°33	29°35			28°96	
6 10	W	14°99		9 12	CF	14°46	
		29°32				28°71	
10 12	W	15°19		10 14	G	14°57	
		29°55	15°24			28°93	14°58
11 13	G	15°28	29°52	11 13	CF	14°54	28°86
		29°49				28°89	
19 21	G	15°05		12 16	G	14°53	
		29°36				28°75	
22 12	G	15°00		13 16	CF	14°44	
		29°33				28°60	
23 11	CF	15°13		14 19	G	14°54	
		29°34	15°07			28°90	
24 12	G	15°02	29°35	17 10	CF	14°23	
		29°32				28°51	
25 10	CF	15°08		18 18	G	14°29	
		29°61				28°62	
26 12	G	15°05		19 10	CF	14°19	14°12
		29°24				28°43	28°40
29 10	CF	14°88		23 11	G	14°18	
		29°09				28°49	
30 11	G	14°91		24 4	CF	13°65	
		29°12				28°00	
Sept. 2 11	G	14°75	14°73	30 9	G	14°32	
		29°09	29°00			28°59	
4 11	G	14°75		Oct. 2 3	CF	14°68	
		29°05				28°92	
5 11	CF	14°29		3 8	G	13°93	
		28°71				28°18	14°13
7 10	CF	14°97		4 4	CF	14°27	28°40
		28°95				28°45	

August 19. Instrument raised from its bearings ; pivots cleaned and oiled.

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1862—cont.				1862—cont.			
d h				d h			
Oct. 5 10	G	13° 95		Nov. 1 8	G	13° 32	27° 84
		28° 31				27° 71	
7 0	CF	13° 66		2 8	G	13° 37	
		27° 93				27° 67	
10 22	G	14° 01		4 11	G	13° 44	
		28° 32				27° 82	
12 22	CF	13° 49		6 12	G	13° 51	
		27° 76				27° 90	
13 22	CF	13° 73	13° 89	7 13	CF	13° 34	13° 30
		27° 83	28° 16			27° 53	27° 57
15 8	CF	14° 53		9 15	G	12° 97	
		28° 55				27° 35	
17 23	CF	13° 95		23 22	G	12° 72	
		28° 08				27° 08	
19 23	CF	14° 22		24 10	G	12° 69	12° 78
		28° 10				26° 96	27° 05
20 23	CF	13° 67		26 10	G	12° 88	
		27° 94				27° 18	
21 3	CF	14° 10		28 8	G	12° 70	
		28° 12	13° 78			27° 17	
23 0	CF	14° 02	28° 06	29 10	W	12° 82	
		28° 21				27° 12	12° 66
24 9	G	13° 55		30 9	W	12° 42	26° 94
		27° 94				26° 76	
25 8	CF	13° 36		Dec. 1 9	G	12° 48	
		27° 80				26° 93	
27 8	CF	13° 96		2 9	CF	11° 96	
		28° 09				26° 15	
28 22	G	13° 69		3 9	G	12° 52	
		28° 00				26° 73	
31 7	CF	13° 61		5 11	G	12° 47	
		27° 72	13° 56			26° 74	12° 20

TABLE VI.—*continued.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1862— <i>cont.</i>				1863— <i>cont.</i>			
d h				d h			
Dec. 6 12	OF	11° 74	26° 47	Jan. 4 22	G	12° 31	26° 56
		25° 99				26° 59	
7 13	W	12° 33		6 14	G	12° 40	
		26° 61				26° 67	
8 12	CF	12° 23		8 16	G	12° 39	
		26° 54				26° 69	
10 4	CF	11° 90		9 17	G	12° 61	
		26° 00				26° 97	12° 70
11 17	G	11° 88	11° 90	10 18	W	12° 66	26° 97
		26° 27	26° 17			26° 90	
15 22	G	11° 93		13 3	CF	13° 04	
		26° 23				27° 40	
17 3	CF	11° 36		23 23	CF	14° 03	
		25° 72				28° 21	
19 3	CF	11° 26		26 6	G	14° 53	14° 40
		25° 51	11° 53			28° 83	28° 67
22 0	G	11° 81	25° 80	29 3	CF	14° 74	
		26° 14				28° 87	
23 22	G	11° 60		30 4	CF	15° 07	
		25° 93				29° 14	
28 23	CF	11° 85		31 9	G	15° 12	
		26° 12				29° 31	15° 39
29 23	CF	11° 94	12° 00	Feb. 2 13	W	15° 81	29° 66
		26° 24	26° 28			30° 05	
31 0	CF	12° 32		3 12	CF	15° 69	
		26° 37				30° 02	
1863.				5 13	CF	16° 22	
						30° 42	
Jan. 1 23	CF	12° 17		8 22	IF	16° 97	16° 63
		26° 36				31° 16	30° 90
2 23	CF	12° 29		10 10	G	16° 74	
		26° 60	12° 29			31° 10	

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1863—cont. d h				1863—cont. d h			
Feb. 12 3	CF	18°00		Mar. 16 9	G	22°81	37°23
		32°16				37°11	
13 3	IF	17°53	17°84	17 9	CF	23°16	
		31°75	32°11			37°35	
17 19	G	18°05		18 8	IF	23°43	
		32°35				37°76	
18 10	IF	18°72		23 9	G	22°33	
		33°11				36°67	22°41
20 0	IF	18°26	18°56	24 7	CF	22°44	36°68
		32°59	32°83			36°74	
21 11	G	18°61		27 22	CF	21°24	
		32°86				35°63	
25 11	G	19°51		29 8	G	21°56	
		33°90				35°86	21°38
27 10	IF	20°14	19°94	Apr. 1 11	G	21°35	35°66
		33°98	34°22			35°60	
28 11	G	20°33		4 14	G	21°29	
		34°63				35°62	
Mar. 1 8	CF	20°01		7 16	G	21°42	
		34°14				35°70	21°35
2 23	IF	21°10	20°58	8 23	CF	21°33	35°62
		35°26	34°85			35°48	
3 10	G	20°80		12 22	IF	21°50	
		35°13				35°92	
4 11	CF	20°53		15 13	CF	21°27	21°32
		34°75				35°33	35°60
12 10	G	22°62		16 17	G	21°23	
		36°92				35°61	
13 10	CF	22°54		20 17	G	21°73	
		36°84				36°00	
14 8	IF	23°08		21 16	CF	21°81	
		37°55	22°96			36°08	
March 23 ^d . 23 ^h . Instrument raised from its bearings; pivots cleaned and oiled.							

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1863—cont. d h		"	"	1863—cont. d h		"	
June 27 9	W	14°40 28°56		July 22 3	CF	14°14 28°47	
28 10	W	14°40 28°59	14°41 28°69	24 4	IF	14°35 28°77	14°15 28°43
29 10	G	14°49 28°88		25 7	CF	13°93 28°26	
30 10	CF	14°42 28°67		26 9	W	14°05 28°35	
July 1 14	IF	14°84 29°23		28 10	G	14°13 28°43	
2 18	G	14°30 28°66	14°52	29 11	CF	13°94 28°27	14°10 28°37
4 4	CF	14°20 28°47	28°79	30 13	IF	14°30 28°58	
5 17	G	14°66 28°85		31 12	CF	14°02 28°21	
8 6	G	13°98 28°34		Aug. 1 13	IF	13°92 28°17	
9 7	CF	14°39 28°67	14°26 28°54	3 15	CF	13°50 27°92	13°69 27°96
10 6	IF	14°37 28°65		4 16	G	13°55 27°97	
13 6	CF	13°94 28°24		5 7	IF	13°63 27°94	
14 7	G	14°04 28°34	13°96 28°23	8 3	CF	13°61 27°91	
16 3	CF	13°90 28°11		10 6	G	13°50 27°77	13°46 27°73
17 4	IF	13°81 28°11	13°93	11 3	CF	13°30 27°61	
18 0	IF	14°03 28°30	28°20	12 5	IF	13°34 27°73	

Nadir-Points of the Transit-Circle,

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1863—cont.				1863—cont.			
Aug. 15 4	IF	13°24		Sept. 15 7	CF	12°51	
		27°40	13°33			26°70	
19 0	IF	13°45	27°60	16 10	IF	13°12	13°01
		27°78				27°51	27°28
24 4	CF	13°36		18 6	CF	13°40	
		27°69				27°56	
25 0	IF	13°47		19 9	IF	13°16	
		27°80				27°47	
25 9	G	13°29	13°27	22 7	CF	13°53	
		27°65	27°54			27°80	
26 0	IF	13°00		23 10	IF	13°35	
		27°38				27°47	
28 3	IF	13°03		24 8	G	12°76	12°91
		27°39				27°12	27°19
31 16	G	13°32		25 10	CF	12°45	
		27°63				26°67	
Sept. 2 4	CF	13°51		27 23	CF	12°57	
		27°78				26°79	
3 2	IF	13°00	13°43	Oct. 1 17	CF	13°23	
		27°24	27°71			27°39	
3 17	G	13°61		2 21	IF	13°12	
		27°94				27°42	12°97
4 17	IF	13°56		5 10	G	12°76	27°24
		28°12				27°09	
8 9	CF	13°56		6 10	CF	12°77	
		27°75				27°08	
11 8	CF	13°29	13°42	7 10	IF	12°78	
		27°59	27°69			27°03	
12 10	IF	13°36		8 9	G	12°76	
		27°78				26°94	
14 10	G	12°86		9 10	CF	12°36	12°62
		27°16				26°60	26°90

October 6. Object-glass removed and its inner surface cleaned.

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1863—cont.				1863—cont.			
Oct. 10 9	IF	12° 85'		Nov. 26 14	G	9° 29'	
		27° 10'				23° 56'	9° 32'
12 10	G	12° 44'		27 14	CF	9° 18'	23° 59'
		26° 74'				23° 43'	
18 23	G	11° 97'	11° 97'	28 16	G	9° 15'	
		26° 22'	26° 22'			23° 42'	
22 10	W	11° 94'	11° 92'	29 17	W	9° 20'	
		26° 18'	26° 20'			23° 45'	
25 0	T	10° 36'		Dec. 3 11	W	9° 45'	
		24° 55'	10° 44'			23° 73'	
26 11	G	10° 57'	24° 71'	4 8	G	9° 47'	9° 32'
		24° 81'				23° 65'	23° 59'
28 4	W	9° 53'		5 12	W	9° 05'	
		23° 69'	9° 42'			23° 38'	
Nov. 2 10	G	9° 41'	23° 69'	7 8	G	8° 99'	
		23° 60'				23° 30'	
10 9	CF	9° 52'		8 11	W	8° 81'	
		23° 56'	9° 53'			23° 12'	8° 82'
11 10	IF	9° 59'	23° 80'	11 8	G	8° 63'	23° 09'
		23° 98'				22° 65'	
16 8	G	9° 05'		12 9	IF	8° 88'	
		23° 32'				23° 27'	
17 11	IF	9° 81'		18 0	CF	8° 45'	
		24° 20'	9° 53'			22° 58'	
18 7	G	9° 56'	23° 80'	19 7	IF	9° 14'	
		23° 95'				23° 44'	8° 68'
20 23	CF	9° 55'		20 9	G	8° 84'	22° 96'
		23° 86'				23° 12'	
23 22	G	9° 53'		21 4	CF	8° 53'	
		23° 75'				22° 46'	
25 12	CF	9° 67'		22 10	IF	8° 65'	
		23° 80'				23° 01'	

October 20-22. Eye-end removed; four additional wires inserted.
October 25. Eye-end turned round 90° for measurement of wire-intervals.

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1864— <i>cont.</i> d h				1864— <i>cont.</i> d h			
Feb. 25 16	W	16.73	30.88	Mar. 20 11	W	20.61	
		31.06				34.94	
26 16	CF	17.10		21 12	G	21.23	
		31.15				35.64	
27 14	IF	17.46	17.29	22 12	W	21.52	
		31.69	31.57			35.77	21.62
29 9	G	17.48		23 12	CF	21.62	35.89
		31.70				35.81	
Mar. 2 7	G	17.82		24 12	W	22.11	
		32.18				36.35	
3 11	W	17.96	18.11	27 18	W	22.16	
		32.27	32.38			36.41	
4 8	CF	18.48		28 15	CF	22.47	
		32.75				36.69	
8 7	IF	19.15		29 8	IF	22.62	22.58
		33.25				36.89	36.86
10 10	W	19.13	19.32	29 10	W	22.60	
		33.29	33.60			36.93	
12 7	IF	19.85		30 17	G	23.08	
		34.09				37.36	
14 7	G	20.16		31 9	W	14.78	
		34.49				29.06	
15 11	W	20.27	20.33	Apr. 5 0	W	15.12	14.93
		34.57	34.60			29.36	29.20
16 7	G	20.51		5 21	G	14.85	
		34.81				29.21	
17 9	W	21.07		7 9	W	14.63	
		35.32				28.88	
18 9	CF	21.04		9 9	W	14.06	
		35.31	20.95			28.42	14.01
19 7	IF	21.06	35.23	11 17	G	13.48	28.28
		35.36				27.81	

March 4^d 8^h. Strong wind; mercury very unsteady.

March 21^d 12^h. Mercury unsteady.

March 31. Microscope object-glasses cleaned and adjusted so as to render the readings more accordant. Instrument raised from its bearings; pivots cleaned and oiled.

April 5. Counterpoises of friction-rollers adjusted to increase the weight on bearings.

*Nadir-Points of the Transit-Circle,*TABLE VI.—*continued.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1864— <i>cont.</i> d h		"	"	1864— <i>cont.</i> d h		"	"
Apr. 12 7	IF	13° 85 28° 04		May 3 8	IF	15° 08 29° 32	
13 7	CF	13° 67 27° 80		6 17	G	14° 74 29° 01	
14 10	W	13° 32 27° 65		8 22	G	14° 53 28° 80	14° 67 28° 94
16 11	W	13° 22 27° 55	13° 35 27° 63	10 8	IF	14° 69 29° 05	
18 10	G	13° 26 27° 55		11 22	G	14° 28 28° 58	
19 10	W	13° 29 27° 59		12 10	IF	14° 91 29° 21	14° 76 29° 03
20 11	CF	13° 70 27° 80		14 4	IF	15° 17 29° 22	
21 11	W	13° 43 27° 74	13° 63	16 17	G	14° 76 29° 09	14° 87
22 12	G	13° 68 27° 95	27° 91	17 10	IF	14° 97 29° 22	29° 15
23 11	W	13° 76 28° 09		20 11	G	13° 90 28° 23	
25 16	CF	14° 59 28° 75		21 10	W	13° 65 27° 95	13° 77 28° 04
28 1	G	14° 08 28° 41	14° 35	23 15	CF	13° 72 27° 99	
28 3	IF	14° 57 28° 65	28° 63	24 15	OF	13° 13 27° 29	
29 6	G	14° 26 28° 62		25 17	G	12° 79 27° 15	12° 83 27° 10
30 7	IF	14° 53 28° 81		28 0	IF	12° 63 26° 79	
May 2 0	G	14° 74 29° 02	14° 78 29° 05	31 7	CF	12° 91 26° 90	

*Nadir-Points of the Transit-Circle,*TABLE VI.—*continued.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1864— <i>cont.</i> d h				1864— <i>cont.</i> d h			
July 26 22	CF	10°20		Aug. 22 17	G	6°62	20°74
		24°50	10°25			20°92	
28 7	CF	10°32	24°53	25 4	CF	6°40	
		24°54				20°59	
29 8	G	9°82		29 3	CF	5°88	
		24°01	9°76			20°12	5°72
Aug. 2 3	CF	9°69	24°03	31 22	G	5°57	20°00
		24°05				19°87	
3 6	CF	9°54		Sept. 7 22	CF	5°88	
		23°79	9°41			20°13	
6 3	CF	9°33	23°68	9 19	G	5°01	
		23°51				19°26	
8 6	G	8°47		12 3	CF	5°59	5°38
		22°66				19°87	19°65
9 5	CF	8°07	8°10	13 9	CF	5°44	
		22°40	22°37			19°69	
11 3	CF	7°79		14 11	G	5°03	
		22°03				19°27	
13 4	CF	7°51		19 15	CF	5°02	
		21°70	7°51			19°32	
14 9	G	7°61	21°78	21 3	CF	5°10	5°03
		21°77				19°40	19°31
15 10	CF	6°76		28 23	CF	4°99	
		20°89				19°18	
16 12	G	6°92	6°79	Oct. 3 22	CF	4°07	
		21°21	21°06			18°31	
18 3	G	6°71		5 22	G	4°30	4°15
		21°04				18°46	18°42
19 15	CF	6°43		7 4	CF	4°18	
		20°68				18°40	
21 14	CF	6°46		9 22	G	3°97	
		20°68	6°46			18°19	

*Nadir-Points of the Transit-Circle,*TABLE VI.—*continued.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1864— <i>cont.</i> d h				1865— <i>cont.</i> d h			
Dec. 18 10	W	3.85 18.07		Jan. 14 15	G	9.61 23.83	
20 3	CF	4.50 18.80		15 16	JS	9.81 24.00	10.15
22 23	CF	4.64 18.86	4.77 19.05	17 17	JS	10.51 24.84	24.43
27 0	CF	5.19 19.47		19 22	CF	11.16 25.34	11.57 25.84
29 23	CF	5.88 20.10	5.94 20.21	22 22	CF	12.02 26.30	12.36 26.64
31 0	JS	6.01 20.31		26 0	CF	12.73 26.95	13.06
				28 11	JS	13.40 27.70	27.33
1865.				30 10	JS	13.72 28.08	13.94
Jan. 4 6	G	7.18 21.54	7.44 21.72	31 10	JS	14.07 28.43	28.21
5 8	JS	7.71 21.90		Feb. 2 9	JS	14.49 28.72	14.50
8 10	G	8.25 22.53		3 10	JS	14.49 28.85	28.77
9 11	JS	8.06 22.33	7.97 22.24	6 10	JS	16.13 30.29	
10 12	G	7.56 21.89		7 23	CF	16.62 30.78	16.43
11 12	JS	9.47 23.74		8 11	G	16.62 30.98	30.71
12 13	G	9.32 23.54	9.45 23.72	9 3	CF	17.27 31.54	
13 13	JS	9.47 23.69					

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865—cont. d h				1865—cont. d h			
Feb. 10 13	G	16°58	17°23	Mar. 10 11	OF	20°26	
		30°99	31°50			34°53	
12 13	JS	17°75		12 13	OF	20°77	
		32°05				35°07	
13 14	CF	17°84		15 15	G	20°59	
		32°08	17°73			34°89	
14 14	G	17°59	32°00	17 22	G	20°59	
		31°95				34°97	
15 17	CF	18°08		18 18	JS	20°66	20°76
		32°41	18°34			35°03	35°04
17 22	CF	18°59	32°62	20 3	OF	21°23	
		32°84				35°57	
20 23	G	18°59		23 22	JS	20°59	
		32°82	18°68			34°87	
21 17	CF	18°77	32°95	27 4	JS	20°05	
		33°07				34°36	
24 9	JS	19°36		29 3	CF	20°42	
		33°61	19°31			34°69	
25 16	OF	19°22	33°58	31 22	CF	20°41	20°36
		33°58				34°72	34°63
28 17	CF	19°80		Apr. 2 23	OF	20°49	
		34°16				34°76	
Mar. 3 14	G	19°93	19°97	3 8	JS	20°46	
		34°11	34°25			34°57	
4 6	CF	20°21		5 9	CF	20°35	
		34°45				34°63	
6 9	JS	20°46		6 22	G	20°14	
		34°73				34°28	
7 9	JS	20°09		7 23	CF	20°16	
		34°25				34°44	20°21
9 11	G	20°23	20°36	8 11	G	20°19	34°48
		34°57	34°63			34°55	

Nadir-Points of the Transit-Circle,

TABLE VI.—*continued.*

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865—cont. d h				1865—cont. d h			
Apr. 11 3	CF	20°28		May 2 23	CF	13°76	
		34°55				28°01	
12 13	G	20°12		3 22	JS	13°73	
		34°42				27°89	
14 22	JS	19°66	19°67	5 22	CF	13°85	13°55
		33°96	33°95			28°12	27°83
16 17	G	18°36		7 22	JS	13°12	
		32°72	18°26			27°42	
17 22	CF	18°11	32°54	10 22	CF	13°72	
		32°41				27°99	
19 23	CF	15°32		14 23	G	13°35	13°48
		29°59				27°65	27°76
19 23	JS	15°20		17 23	CF	13°38	
		29°48				27°63	
20 22	CF	15°36	15°32	22			11°91
		29°61	29°60				26°19
21 22	JS	15°37		26 0	JS	10°55	
		29°62				24°85	
23 22	CF	15°39		28 22	G	10°39	10°34
		29°67				24°60	24°61
24 22	JS	14°41		30 23	G	10°11	
		28°64				24°36	
25 22	CF	14°66		June 2 0	JS	9°63	
		28°91	14°46			23°88	9°68
26 22	JS	14°36	28°73	2 22	CF	9°71	23°95
		28°66				24°04	
27 23	CF	14°42		5 19	G	13°98	
		28°72				28°22	
30 22	CF	13°79		6 3	CF	13°58	13°65
		28°09				27°85	27°92
May 1 23	JS	13°59	13°79	8 23	JS	13°38	
		27°86	28°07			27°68	

May 17^d 23^h, 26^d 0^h. Mercury very unsteady.

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865—cont. d h		"	"	1865—cont. d h		"	"
June 11 22	G	13·53 27·80		July 20 22	JS	16·40 30·68	30·67
14 23	CF	13·24 27·54	13·38 27·65	22 3	JS	15·04 29·34	
15 19	G	13·30 27·66		24 0	G	14·72 29·10	14·88 29·16
18 23	CF	12·75 27·05		24 23	JS	14·79 29·12	
22 0	JS	12·47 26·78	26·90	26 23	JS	14·57 28·84	
26 3	JS	12·33 26·69		28 22	JS	14·23 28·51	14·27 28·54
28 22	CF	12·04 26·23	26·46	30 23	G	14·03 28·25	
July 1 8	G	11·87 26·21		Aug. 1 3	JS	13·62 27·95	
3 4	CF	11·37 25·61	11·63 25·90	2 8	JS	13·58 27·86	13·62 27·89
7 12	CF	12·69 26·94	12·69 26·94	3 23	CF	13·54 27·81	
9 22	JS	14·33 28·60	14·33 28·60	6 23	CF	13·74 27·97	
11 23	CF	16·97 31·19		7 12	JS	13·09 27·37	13·08 27·36
12 15	JS	16·65 30·96	16·83	9 23	JS	13·05 27·37	
13 16	G	16·84 31·23	31·10	12 16	G	12·79 27·09	12·64 26·91
15 19	JS	16·83 31·04		15 14	G	12·46 26·76	
18 22	JS	16·37 30·67	16·39	18 2	JS	12·43 26·69	12·32
June 28 ^d 22 ^h . Mercury very unsteady.							

*Nadir-Points of the Transit-Circle,*TABLE VI.—*continued.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865— <i>cont.</i> d h		"	"	1865— <i>cont.</i> d h		"	"
Aug. 21 22	JS	12° 20	26° 60	Sept. 19 3	CF	11° 06	11° 00
		26° 52				25° 31	25° 27
25 23	CF	11° 79		20 22	JS	11° 00	
		26° 04	11° 78			25° 23	
29 6	JS	11° 76	26° 06	23 3	JS	10° 52	
		26° 09				24° 86	
30 7	JS	11° 71		25 0	CF	10° 50	
		25° 93				24° 72	10° 61
Sept. 1 3	CF	11° 71		25 22	JS	10° 87	24° 89
		26° 02	11° 70			25° 12	
2 9	JS	11° 79	25° 97	27 4	CF	10° 56	
		25° 95				24° 86	
4 23	JS	11° 67		28 6	JS	10° 42	
		25° 92				24° 65	
6 4	CF	11° 36		30 9	JS	10° 38	10° 39
		25° 64				24° 68	24° 66
8 3	JS	11° 49	11° 41	Oct. 2 22	JS	10° 35	
		25° 82	25° 68			24° 66	
9 3	JS	11° 36		3 4	JS	10° 73	
		25° 60				24° 98	10° 76
11 23	JS	11° 07		4 23	CF	10° 81	25° 03
		25° 27				25° 06	
12 23	CF	11° 08		6 0	JS	10° 56	
		25° 42				24° 85	
13 23	JS	11° 15	10° 98	6 23	CF	10° 33	10° 41
		25° 34	25° 25			24° 57	24° 69
15 0	CF	10° 73		8 16	JS	10° 38	
		25° 00				24° 61	
15 23	JS	10° 91		10 3	CF	10° 39	
		25° 19				24° 61	
18 0	JS	10° 95		11 3	JS	10° 04	10° 08
		25° 26				24° 32	24° 36

August 21^d. 22^h. 25^d. 23^h. 29^d. 6^h. Mercury very unsteady.
 October 2^d. 22^h. Instrument raised ; pivots cleaned and oiled.

TABLE VI.—continued.

Nadir-Points of the Transit-Circle.

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865—cont. d h				1865—cont. d h			
Oct. 13 22	CF	9·85 24·12		Nov. 10 0	JS	8·84 23·14	23·11
16 3	JS	9·18 23·40		11 3	JS	8·62 22·88	
18 3	CF	8·71 22·96	9·04	13 3	G	8·41 22·45	
19 4	JS	9·33 23·60	23·31	15 6	JS	8·64 22·86	8·63 22·91
20 23	CF	8·97 23·24		17 3	CF	9·02 23·24	
23 4	JS	8·95 23·18		20 22	CF	8·65 22·92	
24 3	JS	8·83 23·08	8·77 23·04	22 0	JS	8·76 23·03	8·79 23·06
25 4	CF	8·58 22·80		23 22	G	8·99 23·21	
27 6	CF	8·68 23·04		25 7	JS	9·19 23·44	9·03
28 7	JS	8·86 22·96	8·86 23·13	26 23	G	8·93 23·09	23·30
31 3	CF	9·09 23·33		30 22	G	9·22 23·69	
Nov. 1 11	G	8·64 22·97		Dec. 2 3	JS	9·32 23·49	9·32
2 3	CF	9·15 23·46	8·89 23·16	4 3	CF	10·01 24·26	23·59
4 3	JS	8·84 23·10		5 3	JS	9·64 23·91	
7 17	G	9·07 23·23		6 3	CF	10·06 24·30	
8 4	JS	8·93 23·07	8·84	7 3	G	9·86 24·08	10·05 24·32
October 28 ^d . 7 ^h . Mercury very unsteady.							

*Nadir-Points of the Transit-Circle,*TABLE VI.—*concluded.**Nadir-Points of the Transit-Circle.*

Date.	Observer.	Seconds of Nadir-Point.		Date.	Observer.	Seconds of Nadir-Point.	
		Observed.	Adopted.			Observed.	Adopted.
1865— <i>cont.</i> d h				1865— <i>cont.</i> d h			
Dec. 9 3	JS	10°25 24°55		Dec. 21 11	JS	12°57 26°90	26°75
12			10°67 24°94	23 2	JS	13°19 27°55	13°23 27°50
14 3	CF	11°08 25°27	11°29	26 8	JS	14°25 28°52	14°45
17 23	JS	11°52 25°82	25°56	28 9	G	14°63 28°93	28°72
20 2	JS	12°35 26°62	12°47	29 10	JS	15°10 29°38	15°10

TABLE VII.

Separate Results of Direct and Reflex Observations of Stars.

Date.	Star.	Observer.	Direct.	Reflex.	R. — D.
1863. Jan. 27	α^2 Centauri	G	$\begin{smallmatrix} ^{\circ} & ' & '' \\ 150 & 16 & 6 \cdot 58 \end{smallmatrix}$	$\begin{smallmatrix} '' \\ 6 \cdot 85 \end{smallmatrix}$	$\begin{smallmatrix} '' \\ + 0 \cdot 27 \end{smallmatrix}$
1864. Nov. 8	α^2 Centauri	G	150 16 20'94	22'45	+ 1'51
9	"	G	20'67	22'04	+ 1'37
11	"	G	20'18	22'43	+ 2'25
13	"	G	22'77	21'96	— 0'81
15	"	G	21'68	21'24	— 0'44
18	"	G	20'10	20'34	+ 0'24
21	"	CF	19'47	24'05	+ 4'58
22	"	CF	21'78	22'32	+ 0'54
27	"	CF	20'95	22'35	+ 1'40
Nov. 8	α^1 Centauri	G	150 16 11'12	12'74	+ 1'62
9	"	G	11'13	13'50	+ 2'37
11	"	G	11'49	15'06	+ 3'57
13	"	G	13'72	14'10	+ 0'38
15	"	G	12'71	12'93	+ 0'22
18	"	G	12'07	9'63	— 2'44
22	"	CF	12'22	12'44	+ 0'22
27	"	CF	11'65	13'13	+ 1'48
1865. Nov. 12	α^2 Centauri	G	150 16 35'31	37'02	+ 1'71
20	"	CF	37'43	39'19	+ 1'76
21	"	JS	36'95	37'15	+ 0'20
23	"	G	36'04	37'33	+ 1'29
24	"	CF	36'23	37'52	+ 1'29
26	"	G	36'18	38'00	+ 1'82
Dec. 1	α^2 Centauri	CF	150 16 34'95	37'89	+ 2'94
3	"	CF	38'21	37'87	— 0'34
4	"	JS	37'71	36'96	— 0'75

1864 November 15. Exceedingly faint. Observed through cloud.

1865 November 12. Very bad definition. Diffused and flickering.

December 1. Very bad definition.

86 *Separate Results of Direct and Reflex observations.*TABLE VII.—*concluded.**Separate Results of Direct and Reflex Observations of Stars.*

Date.	Star.	Observer.	Direct.	Reflex.	R. — D.
1865.			° ' "	"	"
Nov. 23	α^1 Centauri	G	150 16 27.08	29.37	+ 2.29
24	"	CF	29.95	29.19	— 0.76
26	"	G	27.23	27.53	+ 0.30
Dec. 1	α^1 Centauri	CF	29.39	29.70	+ 0.31
3	"	CF	30.24	29.70	— 0.54
4	"	JS	28.44	27.63	— 0.81
December 1. Very bad definition.					

ROYAL OBSERVATORY.

CAPE OF GOOD HOPE.

SEPARATE RESULTS

OF

MERIDIAN OBSERVATIONS OF STARS

MADE IN THE YEAR

1861,

REDUCED TO MEAN PLACE FOR 1861'0.

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Pegasi.				β Hydri—continued.			
June 28	W	^{h m s} ...	75° 35' 20" 97	Apr. 8	G	^{h m s} o 18 23' 28	o ... "
Dec. 9	G	...	20' 72	9	G	23' 35	...
10	W	o 6 4' 92	...	10	C	23' 45	...
		o 6 4' 92	75 35 20' 85	11	C	23' 38	...
35 Piscium (1st Star).				12	C	23' 40	...
Nov. 13	W	o 7 49' 43	81 57 2' 82	14	C	23' 09	...
o Octantis.				16	C	23' 23	...
June 28	W	o 13 22' 63	179 8 10' 23	17	G	23' 31	168 2 14' 15
o Octantis S.P.				21	G	23' 21	...
June 28	W	o 13 22' 91	179 8 9' 59	24	G	...	14' 61
29	W	22' 37	8' 72			o 18 23' 33	168 2 14' 18
		o 13 22' 64	179 8 9' 16	β Hydri S.P.			
δ Piscium.				Feb. 7	T	...	168 2 14' 80
Oct. 16	G	o 13 26' 87	82 34 53' 97	26	G	o 18 23' 44	14' 23
17	W	26' 83	54' 12	27	C	23' 43	...
		o 13 26' 85	82 34 54' 05	Apr. 5	C	23' 30	15' 43
β Hydri.				6	G	23' 23	15' 67
Feb. 14	W	...	168 2 14' 12	9	G	23' 36	13' 56
15	C	...	14' 76	10	C	23' 40	13' 77
26	C	o 18 23' 36	...	12	C	23' 44	...
27	C	23' 52	...	15	C	23' 48	14' 60
Apr. 4	C	...	13' 27	16	G	23' 18	15' 69
5	C	23' 36	14' 15	17	C	23' 21	15' 10
				22	C	23' 15	16' 60
				25	G	23' 01	14' 96
						o 18 23' 30	168 2 14' 95
				45 Piscium.			
Oct. 16	G	o 18 32' 19	83 4 37' 30				
17	W	32' 08	38' 52				
Nov. 13	W	32' 00	38' 59				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Ceti.				ρ Piscium.			
Feb. 13	W	^h ^m ^s ...	108° 44' 60".50	Dec. 11	G	^h ^m ^s 1 18 46".12	71° 33' 8".16
14	W	...	60".26	η Piscium.			
15	C	...	61".61	June 30	W	...	75 22 17".39
Apr. 21	G	...	58".81	Sept. 21	G	...	16".88
		o 36 37	108 45 0".30	Oct. 17	W	...	18".68
58 Piscium.				Nov. 13	W	...	18".92
June 30	W	o 39 46".80	78 48 7".26	Dec. 11	G	...	16".62
δ Piscium.						1 24 3	75 22 17".70
Nov. 13	W	o 41 28".50	83 10 18".67	101 Piscium.			
14	W	28".42	19".42	Oct. 17	W	1 28 20".83	76 3 1".20
Dec. 10	W	28".46	18".04	105 Piscium.			
		o 41 28".46	83 10 18".71	Sept. 21	G	1 32 11".37	74 18 2".31
ϵ Piscium.				β Arietis.			
June 30	W	...	82 51 31".06	June 30	W	...	69 52 20".56
Aug. 23	C	...	32".60	Oct. 18	G	...	22".40
Nov. 14	W	...	31".18	19	W	...	21".43
Dec. 10	W	o 55 43".96	32".06	Nov. 14	W	...	21".84
11	G	...	33".51	15	G	...	23".86
		o 55 43".96	82 51 32".08			1 46 58	69 52 22".02
ζ Piscium (1st Star).				α Arietis.			
Aug. 23	C	...	83 9 39".20	Aug. 24	G	...	67 11 48".38
24	G	1 6 28".42	38".26	Sept. 21	G	...	47".70
		1 6 28".42	83 9 38".73				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Arietis—continued.</i>				<i>γ Ceti—continued.</i>			
Oct. 19	W	^h ^m ^s ...	67° 11' 46.79	July 18	G	^h ^m ^s ...	87° 21' 7.02
Nov. 14	W	...	47.30	19	G	...	7.03
Dec. 13	G	...	46.33	Nov. 15	G	...	7.02
		1 59 21	67 11 47.30	16	G	...	6.96
						2 36 6	87 21 6.83
<i>η Arietis.</i>				<i>40 Arietis.</i>			
Dec. 13	G	2 5 1.55	69 26 38.22	Nov. 16	G	2 40 44.73	72 17 51.59
<i>67 Ceti.</i>				<i>41 Arietis.</i>			
Aug. 24	G	...	97 3 51.18	Aug. 26	C	2 41 48.63	63 18 53.20
Sept. 21	G	...	51.17	<i>ε Arietis.</i>			
Dec. 13	G	...	51.02	Aug. 26	C	2 51 16.25	69 13 3.61
		2 10 3	97 3 51.12	Oct. 19	W	16.23	1.06
<i>ξ² Ceti.</i>				Nov. 16	G	16.32	5.47
Aug. 24	G	2 20 46	82 9 52.87	Dec. 13	G	16.18	3.79
<i>27 Arietis.</i>				14	W	16.27	3.85
Sept. 21	G	2 23 11.68	72 54 47.50			2 51 16.25	69 13 3.56
<i>μ Arietis.</i>				<i>δ Arietis.</i>			
Sept. 21	G	2 34 32.07	70 34 58.28	Aug. 26		...	70 48 5.35
<i>γ Ceti.</i>				Nov. 16		...	5.69
July 13	G	...	87 21 6.75	Dec. 13		...	5.44
16	G	...	6.28	14		3 3 41.22	4.61
17	G	...	6.77			3 3 41.22	70 48 5.27

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
17 Tauri.				γ^1 Eridani—continued.			
Jan. 21	C	^h 3 ^m 36 ^s 37.70	66° 19' 38".14	Oct. 14	G	^h ... ^m ... ^s ...	103° 54' 22".08
Aug. 26	C	37.58	35.00	21	G	...	23.17
Nov. 16	G	37.55	37.60	Nov. 16	G	...	22.51
17	W	37.79	35.22	Dec. 15	G	...	23.55
		3 36 37.66	66 19 36.49			3 51 33	103 54 22.39
η Tauri.				A Tauri.			
Aug. 26	C	...	66 19 38.64	Oct. 21	G	3 56 28.91	68 18 2.77
Dec. 14	W	3 39 13.60	38.72	Dec. 14	W	28.97	2.22
15	G	...	39.93	15	G	28.96	3.57
		3 39 13.60	66 19 39.10			3 56 28.95	68 18 2.85
27 Tauri.				ϕ^1 Eridani.			
Aug. 26	C	3 40 54.20	66 22 29.03	Jan. 21	C	4 5 5	97 12 10.03
Oct. 21	G	54.16	25.78	δ Tauri.			
Nov. 16	G	54.31	29.22	Jan. 21	C	4 14 55.48	72 47 13.17
17	W	54.25	28.35	ν Tauri.			
		3 40 54.23	66 22 28.10	Nov. 17	W	4 17 59.68	67 30 18.33
γ^1 Eridani.				72 Tauri.			
Aug. 18	G	...	103 54 20.87	Oct. 21	G	4 18 58.94	67 19 13.74
24	G	...	23.03	ϵ Tauri.			
25	G	...	22.59	Jan. 21	C	...	71 7 52.93
26	G	...	22.05	Aug. 27	G	...	52.65
28	G	...	20.99			4 20 30	71 7 52.79
Sept. 5	G	...	21.08				
Oct. 1	G	...	23.47				
7	G	...	22.46				
11	G	...	23.21				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Tauri.				B.A.C. 1587.			
Jan. 22	G	^h ^m ^s ...	73° 46' 24".60	Sept. 4	G	^h ^m ^s 4 59 13".04	165° 8' 54".60
Feb. 12	T	4 27 56".70	24".16	5	G	12".91	52".94
18	G	...	24".21			4 59 12".98	165 8 53".77
Aug. 18	G	...	24".81	B.A.C. 1587 S.P.			
25	G	...	24".61	Sept. 5	G	4 59 12".83	165 8 53".13
26	G	...	23".91	6	W	12".95	55".51
27	G	...	25".72			4 59 12".89	165 8 54".32
28	G	...	25".47	β Orionis.			
31	G	...	24".33	Feb. 12	T	5 7 51".52	98 21 53".28
Sept. 5	G	...	24".01	Sept. 4	G	...	55".43
6	G	...	23".74	5	G	...	52".57
Oct. 1	G	...	23".19	Nov. 18	G	...	54".55
7	G	...	24".92	Dec. 3	W	...	54".18
13	G	...	24".66	4	W	...	53".77
15	G	...	24".54	6	W	...	53".74
21	G	...	24".44	9	W	...	53".32
Nov. 17	G	...	24".76	10	W	51".56	...
		4 27 56".70	73 46 24".48	11	W	...	53".65
τ Tauri.				15	G	...	54".03
Feb. 18	C	4 33 54".43	...			5 7 51".54	98 21 53".85
Oct. 21	G	54".24	67 18 47".45	β Tauri.			
Nov. 17	W	54".44	47".19	Nov. 18	G	...	61 30 49".76
18	G	54".42	48".39	19	W	...	50".95
Dec. 15	G	54".34	46".97			5 17 30	61 30 50".36
16	W	54".47	...				
		4 33 54".39	67 18 47".50				
ι Tauri.							
Dec. 15	G	4 54 47".46	68 36 43".78				
16	W	47".43	43".26				
		4 54 47".45	68 36 43".52				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Orionis.				α Columbæ.			
Feb. 12	T	^h 5 ^m 24 ^s 54.42	90° 24' 17.38	Feb. 12	T	^h 5 ^m 34 ^s 36.94	124° 9' 0.28
Dec. 3	W	...	17.38	13	T	...	1.25
4	W	...	17.48	19	G	...	0.04
6	W	...	17.46	Dec. 3	W	...	1.44
9	W	...	17.08	4	W	...	0.20
14	W	54.36	...	6	W	...	0.99
		5 24 54.39	90 24 17.36	9	W	...	0.54
α Leporis.				10	W	37.03	1.49
Feb. 19	G	...	107 55 29.49	14	W	37.06	...
Dec. 10	W	5 26 35.95	...			5 34 37.01	124 9 0.78
11	W	...	27.13	χ^1 Orionis.			
14	W	36.00	...	Feb. 19	G	5 46 9.15	69 45 9.61
16	W	...	28.75	20	C	9.49	...
		5 26 35.98	107 55 28.46	Dec. 16	W	9.13	12.11
ϵ Orionis.				17	G	...	12.91
Dec. 10	W	5 29 9.68	...			5 46 9.26	69 45 11.54
14	W	9.67	...	α Orionis.			
		5 29 9.68	91 18	Feb. 12	T	5 47 39.01	82 37 18.81
ζ Tauri.				13	T	...	19.29
Jan. 23	C	5 29 20.18	68 56 44.92			5 47 39.01	82 37 19.05
Nov. 18	G	20.38	45.98	ι Geminorum.			
19	W	20.27	46.32	Feb. 19	G	5 55 40.39	66 43 57.53
		5 29 20.28	68 56 45.74	20	C	40.30	...
						5 55 40.35	66 43 57.53

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ν Orionis.				ϵ Geminorum.			
Jan. 24	G	^h ^m ^s ...	75° 13' 6.77	Feb. 20	C	^h ^m ^s 6 35 22.46	64° 44'(11.33)
Oct. 1	G	...	6.48	21	G	22.68	5.30
7	G	...	7.38	Dec. 17	G	...	9.67
11	G	...	6.88			6 35 22.57	64 44 7.49
15	G	...	6.20				
21	G	...	5.45				
		5 59 38	75 13 6.53	α Canis Majoris.			
η Geminorum.				Feb. 12	T	6 39 1.24	106 31 41.09
Jan. 23	C	6 6 28.95	67 27 23.86	13	T	1.15	40.48
24	G	29.27	22.02	21	G	...	41.84
Mar. 19	C	29.17	23.54	Dec. 3	W	...	40.66
20	C	29.25	22.21	4	W	1.13	41.17
Nov. 19	W	...	24.94	6	W	1.24	40.99
Dec. 16	W	29.35	25.05	9	W	1.14	40.86
17	G	...	25.91	17	G	...	40.84
		6 6 29.20	67 27 23.93			6 39 1.18	106 31 40.99
μ Geminorum.				ζ Geminorum.			
Jan. 23	C	...	67 25 8.17	Feb. 21	G	6 55 51.83	69 13 45.89
24	G	...	6.78	Dec. 17	G	...	46.81
Mar. 19	C	...	8.43	18	W	...	45.86
20	C	...	7.70			6 55 51.83	69 13 46.19
Nov. 19	W	...	9.12	δ Geminorum.			
		6 14 33	67 25 8.04	Jan. 24	G	...	67 45 55.55
γ Geminorum.				Feb. 21	G	...	54.39
Dec. 17	G	6 29 41	73 29 11.37	Mar. 20	C	...	54.06
				Oct. 25	G	...	54.08
				Nov. 21	W	...	53.15
				Dec. 18	W	...	54.80
						7 11 49	67 45 54.34

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
63 Geminorum.				g Geminorum.			
Nov. 21	W	^h 7 ^m 19 ^s 29·15	68° 16' 32·44	Apr. 18	G	^h 7 ^m 38 ^s 4·35	71° 9' 15·20
v Geminorum.				Nov. 21	W	4·39	15·57
Jan. 24	G	7 27 21·26	62 47 54·06	φ Geminorum.			
25	C	21·21	...	Feb. 21	G	7 44 59·15	62 52 40·58
Mar. 20	C	21·22	...	6 Cancri.			
21	G	21·36	55·67	Apr. 18	G	7 54 59	61 49 9·13
		7 27 21·26	62 47 54·87	μ Cancri.			
f Geminorum.				Apr. 18	G	7 59 34·82	68 1 2·77
Dec. 18	W	7 31 27	72 0 45·35	Nov. 21	W	...	3·48
α Canis Minoris.				22	G	34·96	4·91
Jan. 25	C	7 32 1·44	...			7 59 34·89	68 1 3·72
Feb. 13	T	1·49	84 25 18·62	A Octantis.			
Mar. 21	G	1·66	18·67	Apr. 25	G	8 19 42·11	178 27 34·26
July 14	C	1·55	...	27	G	37·81	32·51
Aug. 21	C	1·45	...	28	G	39·95	34·28
		7 32 1·52	84 25 18·65	29	G	39·51	33·75
κ Geminorum.						8 19 39·85	178 27 33·70
Mar. 20	C	7 36 3·06	...	A Octantis S.P.			
21	G	3·10	65 16 17·99	Apr. 25	G	8 19 41·88	...
Dec. 18	W	...	20·89	27	G	39·81	178 27 35·27
		7 36 3·08	65 16 19·44	28	G	37·69	34·66
β Geminorum.						8 19 39·79	178 27 34·97
Jan. 24	G	7 36 48	61 38 29·55				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Cancri.				α Cancri.			
Jan. 25	G	^h ^m ^s ...	69° 5' 21".71	Apr. 18	G	^h ^m ^s 8 50 53".09	77° 36' 23".26
26	O	...	21".58	Nov. 22	G	52".82	23".74
Mar. 21	G	...	21".33			8 50 52".96	77 36 23".50
May 5	G	...	19".47	ϵ Argûs.			
7	G	...	21".25	Oct. 31	CF	9 13 22".10	...
Nov. 22	G	...	21".50	Nov. 19	CF	22".15	...
		8 24 40	69 5 21".14			9 13 22".13	148 42
39 Cancri.				α Hydræ.			
Mar. 21	G	8 32 6".60	69 30 13".78	Jan. 26	G	...	98 3 28".28
40 Cancri.				Nov. 22	G	...	30".31
Mar. 22	C	8 32 12	69 32 25".06	23	W	...	28".04
γ Cancri.						9 20 45	98 3 28".88
Jan. 25	C	8 35 14".28	68 2	ι Sextantis.			
δ Cancri.				Dec. 21	G	9 29 52".33	82 32 34".64
Mar. 21	G	8 36 46".96	71 20 15".36	\circ Leonis.			
Nov. 22	G	46".98	15".67	Jan. 26	G	9 33 43".77	79 28 37".10
		8 36 46".97	71 20 15".52	Mar. 23	G	43".91	38".57
ϵ Hydræ.				May 17	W	...	36".69
Jan. 26	G	...	83 4 25".17	Dec. 21	G	43".81	37".03
Apr. 18	G	...	25".94			9 33 43".83	79 28 37".35
		8 39 25	83 4 25".56	ϵ Leonis.			
				Feb. 8	T	9 37 57	65 35 14".71

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
18 Leonis.				45 Leonis.			
Jan. 26	G	^h 9 ^m 38 ^s 53·94	77° 33' 4" 73	May 17	W	^h ...	79° 31' 48" 37
				18	G	10 20 18·20	47° 56
π Leonis.						10 20 18·20	79 31 47·97
Feb. 24	W	...	81 17 25·07	ρ Leonis.			
Mar. 23	G	...	24·97	Jan. 28	C	...	79 58 44·82
		9 52 52	81 17 25·02	Mar. 24	W	...	44·90
α Leonis.				Apr. 5	C	...	45° 38
Feb. 24	W	...	77 21 16·00	6	G	...	43° 51
Mar. 23	G	...	17·61	8	C	...	44·86
Apr. 3	C	...	15·30	9	G	...	43·98
6	G	...	17·82	10	C	...	44·48
9	G	...	17·49	12	C	...	42·95
11	G	...	17·15	May 17	W	...	44·25
Dec. 21	G	...	16·89	18	G	...	43·77
22	W	...	17·67	Dec. 22	W	...	44·82
		10 0 58	77 21 16·99			10 25 29	79 58 44·34
γ ¹ Leonis.				δ Leonis.			
Feb. 7	T	...	69 27 23·97	Feb. 24	W	10 53 22·81	85 38 11·45
8	T	10 12 18·38	23·40	25	C	22·80	12·44
Apr. 3	C	18·31	25·40			10 53 22·81	85 38 11·95
5	C	...	25·49	ε Leonis.			
6	G	18·25	24·43	Jan. 1	W	10 53 32·45	83 9 9·24
9	G	18·45	22·20	χ Leonis.			
May 14	G	...	23·35	Feb. 25	C	...	81 54 47·57
18	G	18·41	23·19	Apr. 16	G	...	45·88
19	G	...	24·18			10 57 51	81 54 46·73
Nov. 24	G	...	23·79				
		10 12 18·36	69 27 23·94				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>p^h</i> Leonis.				<i>v</i> Leonis.			
Feb. 25	C	^h 11 ^m 6 ^s 38.64	89° 18' 50".12	Jan. 1	W	^h ... ^s ...	90° 3' 22".67
				28	C	...	23.16
				29	G	...	22.59
<i>φ</i> Leonis.				Feb. 26	G	...	23.60
Mar. 24	W	11 9 35.82	92 50 24.80	Mar. 24	W	...	22.90
				Apr. 8	C	...	22.75
<i>δ</i> Crateris.				10	C	...	22.28
Jan. 1	W	...	104 1 35.43	13	G	...	23.24
Feb. 8	T	...	36.54	22	C	...	23.23
Mar. 26	W	...	34.48	May 18	G	...	22.72
Apr. 5	C	...	36.91	19	W	...	22.62
6	G	...	33.69	June 15	W	...	23.15
9	G	...	35.61			11 29 50	90 3 22.91
10	C	...	35.64	B.A.C. 4006.			
12	C	...	35.59	June 15	W	11 42 55.88	94 33 36.70
13	G	...	35.96				
15	C	...	36.48	<i>β</i> Virginis.			
16	G	...	35.23	Feb. 25	C	11 43 27.26	87 27 7.43
21	G	...	36.88	26	G	27.23	7.32
May 31	G	...	35.62			11 43 27.25	87 27 7.38
June 3	G	...	35.75				
Dec. 21	G	...	35.78				
<i>ε</i> Leonis.				<i>η</i> Crateris.			
Jan. 28	C	11 23 12.77	92 14 13.23	Feb. 7	T	...	106 22 36.92
29	G	12.50	12.88	12	T	...	36.09
Mar. 24	W	12.82	12.38	Apr. 5	C	...	36.98
May 18	G	12.82	12.71	6	G	...	35.55
		11 23 12.73	92 14 12.80			11 48 56	106 22 36.39

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Corvi.				β Corvi—continued.			
Jan. 29	G	^{h m s} ...	111° 50' 49.85	May 9	G	^{h m s} ...	112° 37' 38.17
Apr. 17	C	...	46.98	14	G	...	(33.35)
		12 2 59	111 50 48.42	17	C	...	39.03
				18	G	...	38.12
η Virginis.				July 13	G	12 27 5.53	37.94
Jan. 29	G	...	89 53 37.49			12 27 5.53	112 37 38.72
Apr. 17	C	...	38.09	f Virginis.			
July 13	G	12 12 47.86	37.75	Mar. 26	W	12 29 38.02	95 4
		12 12 47.86	89 53 37.78	Lacaille 5235.			
q Virginis.				June 28	W	12 30 4.97	179 2 7.26
Jan. 29	G	12 26 36.38	98 41 3.58	29	W	2.29	7.79
Feb. 26	G	36.32	4.19	July 1	W	2.01	7.94
27	C	36.44	4.84			12 30 3.09	179 2 7.66
		12 26 36.38	98 41 4.20	Lacaille 5235 S.P.			
β Corvi.				June 28	W	12 30 3.65	179 2 7.07
Feb. 8	T	...	112 37 39.19	30	W	2.10	...
Apr. 3	C	...	40.07			12 30 2.88	179 2 7.07
5	C	...	38.45	χ Virginis.			
6	G	...	38.97	Apr. 22	C	12 32 4.43	97 13 45.46
9	G	...	38.14	July 13	G	4.60	47.42
16	G	...	37.86	14	W	4.54	46.32
22	C	...	37.72			12 32 4.52	97 13 46.40
27	G	...	38.68				
29	C	...	40.14				
May 5	G	...	38.67				
6	C	...	38.92				
7	G	...	38.44				
8	C	...	39.66				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ^1 Virginia.				α Virginia.			
Apr. 8	C	^h 12 ^m 34 ^s 36.86	90° 41' 8".42	Jan. 31	G	^h ... ^s ...	100° 26' 4".33
12	C	37.06	8.66	Feb. 26	G	...	4.67
15	C	37.00	8.18	Mar. 26	W	...	3.53
25	G	37.29	9.86	Apr. 13	G	...	4.76
		12 34 37.05	90 41 8.78	15	C	...	4.91
α Virginia.				16	G	...	3.88
Feb. 26	G	12 34 46.37	96 44 6.61	17	C	...	4.55
27	C	46.57	7.35	24	C	...	5.21
		12 34 46.47	96 44 6.98	25	G	...	3.23
ψ Virginia.				27	G	...	3.89
Apr. 22	C	12 47 7.45	...	29	C	...	3.54
July 13	G	7.74	98 46 58.18	May 5	G	...	3.61
		12 47 7.60	98 46 58.18	6	C	...	4.18
θ Virginia.				8	C	...	3.58
Feb. 26	G	...	94 47 44.95	9	G	...	3.46
Apr. 10	C	...	44.37	14	G	...	6.29
May 6	C	...	45.24	16	G	...	5.03
8	C	...	44.76	17	C	...	4.54
July 14	W	...	43.74	18	G	...	4.31
		13 2 45	94 47 44.61	June 17	C	...	2.36
δ Virginia.				July 14	W	...	3.24
Apr. 24	C	13 11 8.52	107 32 13.28	15	C	...	4.33
λ Virginia.						13 17 52	100 26 4.16
Mar. 26	W	13 25 39.12	99 26 49.88	δ Virginia.			
27	G	39.20	51.04	Mar. 26	W	13 25 39.12	99 26 49.88
July 14	W	39.10	49.44	27	G	39.20	51.04
15	C	39.04	49.96	July 14	W	39.10	49.44
		13 25 39.12	99 26 50.08	15	C	39.04	49.96

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Virginis.				B.A.C. 4700.			
Feb. 27	C	^h ^m ^s 13 27 37	89° 53' 2" 52	Jan. 31	G	^h ^m ^s 14 3 15·33	105° 38' 37" 00
83 Virginis.				Feb. 1	G	15·24	36·23
				May 22	C	15·29	36·21
Feb. 27	C	13 37 0·15	105 28 42·33			14 3 15·29	105 38 36·48
85 Virginis.				B.A.C. 4722.			
Jan. 17	C	13 38 6·37	105 4	Mar. 27	G	14 7 44·80	107 33 2·03
89 Virginis.				28	W	44·80	0·31
						14 7 44·80	107 33 1·17
Jan. 31	G	13 42 19·73	107 26 23·51	α Boötis.			
May 22	C	19·48	...	Jan. 31	G	...	70 5 31·29
June 17	C	19·53	22·71	Feb. 1	G	...	31·41
		13 42 19·58	107 26 23·11	Mar. 27	G	...	31·87
η Boötis.				Apr. 25	G	...	33·79
May 31	C	...	70 54 12·19	27	G	...	32·75
June 3	C	...	13·11	29	C	...	30·78
		13 48·4	70 54 12·65	May 6	C	...	30·55
β Centauri.				7	G	...	32·45
Nov. 21	CF	13 54 3·15	...	9	G	...	30·02
25	CF	2·90	...	28	G	...	32·22
		13 54 3·03	149 42	June 3	C	...	31·06
				5	C	...	31·79
				7	C	...	31·33
				28	C	...	32·19
				29	G	...	30·46
				July 1	C	...	32·17
				Sept. 18	C	..	32·76
						14 9 19	70 5 31·70

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
λ Virginis.				α^2 Centauri.			
July 15	C	^h 14 ^m 11 ^s 35.69	102° 43' 44".49	Oct. 31	CF	^h 14 ^m 30 ^s 10.62	° ... "
16	G	...	43.72	Nov. 6	CF	10.90	...
Aug. 12	C	35.53	44.22	14	CF	10.45	...
		14 11 35.61	102 43 44.14	19	CF	10.82	...
B.A.C. 4767.				21	CF	10.52	...
				Dec. 19	CF	...	150 15 35.00
Mar. 27	G	14 16 53.40	114 10 23.59			14 30 10.66	150 15 35.00
28	W	53.26	22.50	56 Hydræ.			
		14 16 53.33	114 10 23.05	July 15	C	14 39 38.51	115 30 7.32
				16	G	...	7.62
z Ootantis.						14 39 38.51	115 30 7.47
July 9	W	...	177 34 10.86	α Libræ.			
12	W	...	11.07	Feb. 1	G	...	105 27 44.14
13	G	14 24 5.05	10.77	Mar. 1	C	...	41.62
14	W	5.21	10.63	27	G	...	41.05
15	C	3.65	10.02	28	W	...	39.89
16	G	4.38	10.01	Apr. 24	C	...	41.77
17	W	5.92	9.95	25	W	...	41.43
18	G	4.80	9.54	May 5	G	...	42.71
19	G	3.42	10.64	14	G	...	39.97
		14 24 4.63	177 34 10.39	16	G	...	40.07
z Octantis S.P.				17	C	...	42.15
July 13	G	14 24 4.94	177 34 10.94	22	C	...	41.53
15	G	5.33	...	28	G	...	41.16
16	G	4.61	10.52	31	C	...	43.22
17	G	4.60	10.32	June 3	C	...	42.12
18	G	4.43	10.39	7	C	...	40.88
19	G	4.97	10.00	28	C	...	41.56
		14 24 4.81	177 34 10.43	July 1	C	...	41.46
				2	G	...	40.77
				3	C	...	41.71

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Libræ—continued.</i>				<i>β Libræ.</i>			
July 12	W	^h ^m ^s ...	105° 27' 41" 36	Mar. 29	G	^h ^m ^s ...	98° 52' 2" 29
13	C	14 43 11·61	41·25	May 22	C	...	2·02
15	G	...	41·68	June 5	C	...	3·42
18	C	...	41·15	28	C	...	0·78
19	G	...	40·96	29	G	...	1·58
Aug. 12	C	...	41·84	July 2	G	...	2·49
		14 43 11·61	105 27 41·50	3	C	...	2·55
<i>γ Scorp̃ii 1 Hev.</i>				5	C	...	2·99
Feb. 1	G	14 55 56·58	114 43 58·45	8	C	...	3·02
2	G	56·61	58·17	15	C	...	0·89
Mar. 1	C	56·61	58·60	16	G	...	2·07
28	W	56·49	57·85	17	C	...	1·54
29	G	56·57	59·28	Aug. 13	G	...	1·48
May 22	C	56·43	57·84			15 9 32	98 52 2·09
June 19	C	56·48	58·38	<i>ζ Libræ.</i>			
Aug. 12	C	56·46	59·20	July 16	G	...	106 13 43·45
13	G	56·39	58·19	17	C	15 20 25·43	43·41
		14 55 56·51	114 43 58·44			15 20 25·43	106 13 43·43
<i>ι Libræ.</i>				<i>Scorp̃ii 3 Hev.</i>			
Feb. 1	G	15 4 18·43	109 15 45·72	June 19	C	15 28 35·70	117 40 17·65
Mar. 28	W	18·22	45·53	<i>α Serpentiæ.</i>			
29	G	18·25	46·33	May 22	C	...	83 8 3·47
Apr. 24	C	18·59	46·29	24	C	...	2·53
25	W	18·17	45·47	June 5	C	...	2·64
May 22	C	18·29	46·55	19	C	...	3·43
July 16	G	...	45·91	28	C	...	2·13
17	C	18·38	45·51	29	G	...	3·48
Aug. 12	C	18·32	46·11				
13	G	18·17	45·78				
		15 4 18·31	109 15 45·92				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Serpentis—continued.</i>				<i>δ Ophiuchi.</i>			
July 1	C	^h ^m ^s ...	83° 8' 3".41	July 3	C	^h ^m ^s ...	93° 19' 60".51
2	C	...	3".22	5	C	...	60".44
8	C	...	3".04	9	G	...	59".37
9	G	...	3".80	11	G	...	59".48
		15 37 25	83 8 3".12	12	C	...	60".74
				13	G	16 7 3".85	58".95
<i>π Scorpil.</i>						16 7 3".85	93 19 59".92
May 24	C	15 50 26".76	115 42 36".69	<i>σ Scorpil.</i>			
<i>δ' Scorpil.</i>				Mar. 29	G	16 12 44".65	115 15 20".55
Mar. 1	C	15 52 7".39	112 13 22".28	30	W	44".63	20".64
2	G	7".20	21".57	July 17	C	44".81	21".22
		15 52 7".30	112 13 21".93	18	G	44".70	20".11
<i>β' Scorpil.</i>				Aug. 13	G	44".67	20".18
Mar. 1	C	...	109 25 18".12	14	C	44".65	19".82
2	G	...	19".49			16 12 44".69	115 15 20".42
29	G	...	18".35	<i>α Scorpil.</i>			
Apr. 25	W	...	17".21	Mar. 2	G	...	116 7 12".32
May 24	C	...	19".59	29	G	...	11".79
Aug. 13	G	...	17".46	30	W	...	10".70
Dec. 26	G	...	19".44	June 3	C	...	11".00
		15 57 22	109 25 18".52	5	C	...	10".79
<i>ν Scorpil.</i>				7	C	...	10".54
Mar. 29	G	16 3 55".35	109 5 46".07	July 2	G	...	10".71
30	W	55".40	45".66	3	C	...	9".71
Apr. 25	W	55".14	46".51	8	C	...	11".78
		16 3 55".30	109 5 46".08	9	G	...	12".96
				11	G	...	11".12
				12	C	...	11".19
				13	G	16 20 53".34	11".85
				17	C	...	11".41
				18	G	...	11".02

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Scorpii—continued.				θ Ophiuchi—continued.			
Aug. 13	G	^h ^m ^s ...	116° 7' 11.47	July 18	G	^h ^m ^s ...	114° 51' 23.75
14	C	...	11.50	19	C	...	24.80
Dec. 19	G	...	10.68	Aug. 14	C	...	23.44
20	G	...	11.13			17 13 28	114 51 23.46
22	G	...	12.34	B.A.C. 5868.			
23	G	...	10.66	Mar. 30	W	17 16 35.62	114 6 45.68
25	CF	...	8.97	δ Ophiuchi.			
26	CF	...	10.34	Apr. 27	W	17 18 28.95	...
		16 20 53.34	116 7 11.13	May 24	C	28.82	...
τ Scorpii.				25	G	28.98	119 44 13.23
Mar. 2	G	16 27 14.12	117 55 25.17	July 18	G	28.76	12.93
α Trianguli Australis.				19	C	29.00	12.82
Oct. 31	CF	16 33 58.68	...			17 18 28.90	119 44 12.99
Nov. 14	CF	58.81	...	β Draconis.			
15	CF	58.56	...	Aug. 3	W	17 27 17	37 35 35.44
		16 33 58.68	158 46	α Ophiuchi.			
α Heroulius.				May 25	G	...	77 20 8.29
Aug. 1	W	...	75 26 53.04	July 19	C	...	8.10
3	W	...	53.49			17 28 29	77 20 8.20
Sept. 5	G	...	53.46	σ Octantis.			
		17 8 19	75 26 53.33	Mar. 30	W	...	179 16 41.88
θ Ophiuchi.				Apr. 27	W	17 52 22.46	41.44
Mar. 30	W	...	114 51 23.40	Aug. 3	W	...	41.54
May 24	C	...	23.91			17 52 22.46	179 16 41.62
25	G	...	21.44				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ε Octantis S.P.				λ Sagittarii.			
Oct. 1	G	^h ^m ^s ...	179° 16' 42".18	Apr. 27	W	^h ^m ^s 18 19 23.41	115° 29' 38".95
7	G	...	42.53	28	G	23.52	39.61
11	G	...	44.20	Aug. 16	C	23.60	40.46
15	G	...	42.31			18 19 23.51	115 29 39.67
21	G	...	41.91	α Lyrae.			
Nov. 19	W	...	40.89	Aug. 3	W	...	51 20 36.82
Dec. 3	W	...	41.32			Nov. 14	CF	18 32 13.91	...
4	W	...	42.08	15	CF	13.96	...
6	W	...	41.83	22	CF	13.74	...
9	W	...	41.20	23	CF	14.35	...
10	W	...	42.21			18 32 13.99	51 20 36.82
11	W	...	40.55	φ Sagittarii.			
14	W	...	41.73	Apr. 1	W	...	117 7 45.49
		17 52 22	179 16 41.92	May 25	G	18 36 58.42	49.79
γ ¹ Sagittarii.				July 19	C	58.16	46.38
June 22	W	17 56 8.49	119 34 53.17	Sept. 13	C	58.25	46.49
μ Sagittarii.						18 36 58.28	117 7 47.04
May 25	G	...	111 5(33.34)	σ Sagittarii.			
June 22	W	...	27.62	Apr. 28	G	18 46 38.62	...
July 19	C	...	27.24	29	G	...	116 27 54.69
		18 5 27	111 5 27.43	May 25	G	38.90	54.14
δ Sagittarii.				June 22	W	38.72	54.80
Apr. 27	W	18 12 5.69	119 52 57.73	23	W	38.62	...
28	G	5.63	...	July 19	C	38.51	55.31
Aug. 16	C	5.83	57.94	Sept. 13	C	38.66	54.41
		18 12 5.72	119 52 57.84			18 46 38.67	116 27 54.67

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
π Sagittarii.				γ Aquilæ.			
Apr. 28	G	^h 19 ^m 1 ^s 29.63	111° 14' 25".46	Sept. 14	G	^h ... ^m ... ^s ...	79° 43' 21".17
29	G	...	26.28	Oct. 11	G	...	21.05
June 23	W	29.83	...			19 39 39	79 43 21.11
		19 1 29.73	111 14 25.87	α Aquilæ.			
ω Aquilæ.				Jan. 27	G	...	81 29 46.14
Apr. 28	G	19 11 17	78 39 7.96	Apr. 28	G	...	44.72
ρ Sagittarii.				Sept. 13	C	...	45.15
Aug. 16	C	19 13 36.56	108 6 18.54	14	G	...	46.13
ν Sagittarii.				Oct. 11	G	...	45.61
Oct. 11	G	19 13 45.84	106 12 43.79	Dec. 14	CF	...	42.65
λ^2 Sagittarii.				19	G	...	45.81
Aug. 16	C	...	115 11 10.71	20	G	...	45.26
Oct. 10	W	...	11.20	24	G	...	46.03
11	G	...	11.58	30	G	...	45.70
		19 28 15	115 11 11.16	31	G	...	43.50
ϵ Sagittarii.						19 44 0	81 29 45.15
Sept. 13	C	19 34 33.92	106 26 45.91	θ Sagittarii.			
14	G	33.98	46.70	Sept. 13	C	19 50 3.85	105 51 24.18
Oct. 10	W	33.93	46.01	14	G	3.80	25.12
11	G	33.92	45.50			19 50 3.83	105 51 24.65
		19 34 33.94	106 26 46.03	α^2 Capricorni.			
Sept. 13	C	19 34 33.92	106 26 45.91	Apr. 27	G	...	102 58 21.32
14	G	33.98	46.70	28	G	...	21.51
Oct. 10	W	33.93	46.01	June 23	W	...	20.18
11	G	33.92	45.50	Sept. 14	G	...	20.57
		19 34 33.94	106 26 46.03			20 10 20	102 58 20.90

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Capricorni.				B Octantis S.P.			
June 23	W	^h ^m ^s 20 13 11.78	105° 13' 1.42	Apr. 25	G	^h ^m ^s	179° 28' 40.45
α Pavonis.				27	G	20 39 14.74	40.02
Nov. 20	CF	20 14 37.70	...	28	G	14.36	39.47
26	CF	37.56	...	29	G	14.42	39.56
27	CF	37.43	...	May 4	G	...	39.95
		20 14 37.56	147 11	5	G	17.05	39.50
ρ Capricorni.				6	G	15.62	40.42
June 23	W	...	108 16 11.88	7	G	19.53	40.00
24	C	...	11.36	8	G	18.84	39.63
Oct. 11	G	...	13.43	9	G	20.90	39.63
12	W	...	12.48			20 39 16.93	179 28 39.86
		20 20 56	108 16 12.29	ϵ Aquarii.			
τ Capricorni.				Sept. 14	G	20 40 9.01	100 0 6.86
Oct. 11	G	20 31 29.87	105 26 20.10	θ Capricorni.			
12	W	30.00	21.02	June 24	C	20 58 7.81	107 46 56.11
		20 31 29.94	105 26 20.56	Aug. 19	C	7.92	57.07
B Octantis.				Sept. 14	G	7.70	56.73
Apr. 27	G	20 39 11.46	179 28 38.87	15	W	7.80	56.47
28	G	16.33	39.50			20 58 7.81	107 46 56.60
May 5	G	14.86	38.41	ν Aquarii.			
6	G	18.05	38.08	June 24	C	21 2 1.20	101 55 53.59
7	G	15.90	38.65	Oct. 12	W	1.23	54.33
8	G	24.38	37.48	13	W	1.30	54.10
9	G	12.92	39.47			21 2 1.24	101 55 54.01
		20 39 16.27	179 28 38.64	ζ Cygni.			
				Aug. 19	C	21 7 1	60 20 33.44

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
♄ Capricorni.				♈ Aquarii.			
Aug. 19	C	21 ^h 14 ^m 30 ^s 34	107° 25' 26" 36	Aug. 19	C	21 ^h 58 ^m 55 ^s 64	104° 32' 31" 80
β Aquarii.				α Gruis.			
June 24	C	...	96 10 48 34	Dec. 23	CF	...	137 37 57 04
Sept. 15	W	...	49 74	24	CF	...	56 22
16	C	...	50 03	26	CF	...	57 33
Oct. 13	W	...	49 11	30	CF	...	56 06
Nov. 8	W	...	49 38			21 59 27	137 37 56 66
		21 24 14	96 10 49 32	C Octantis.			
ξ Aquarii.				May 17	G	22 3 48 91	176 40 7 12
Sept. 15	W	21 30 21 09	98 28 30 89	18	G	48 11	8 11
16	C	21 14	31 71			22 3 48 51	176 40 7 62
Oct. 12	W	21 05	30 25	C Octantis S.P.			
		21 30 21 09	98 28 30 95	May 14	G	...	176 40 11 04
ε Pegasi.				17	W	22 3 47 92	6 65
Aug. 19	C	21 37 22	80 45 38 07	18	G	49 09	7 67
30 Aquarii.				19	G	49 53	8 29
Nov. 10	G	21 55 57 63	97 11 13 97			22 3 48 85	176 40 8 41
α Aquarii.				θ Aquarii.			
Sept. 17	G	21 58 38 64	90 59 36 80	May 18	G	...	98 28 25 32
Oct. 13	W	...	35 86	30	G	...	25 33
Nov. 8	W	...	36 26	Aug. 19	C	...	25 15
		21 58 38 64	90 59 36 31	Sept. 16	C	...	25 82
				17	G	22 9 29 66	26 74
				Oct. 14	G	...	25 37
				Nov. 10	G	...	24 91
						22 9 29 66	98 28 25 52

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Aquarii.				β Piscium—continued.			
Sept. 16	C	^h 22 ^m 14 ^s 28·69	92° 5' 10·90	July 25	G	^h 22 ^m 56 ^s 48·19	86° 55' 39·61
17	G	28·47	10·13	Oct. 14	G	48·29	38·52
Oct. 13	W	28·66	9·94	15	W	48·17	39·68
14	G	28·64	10·24			22 56 48·24	86 55 38·31
		22 14 28·62	92 5 10·30	α Pegasi.			
π Aquarii.				Nov. 5	G	22 57 50	75 32 30·93
Oct. 13	W	22 18 10·74	89 19 34·35	τ Octantis.			
14	G	10·78	35·31	June 5	W	23 5 18·32	178 14 36·44
		22 18 10·76	89 19 34·83	7	W	15·27	...
η Aquarii.				8	W	16·63	36·02
Nov. 10	G	22 28 13	90 49 58·46			23 5 16·74	178 14 36·23
ζ Pegasi.				τ Octantis S.P.			
May 30	G	22 34 32	79 53 34·97	Mar. 26	W	...	178 14 35·93
α Piscis Australis.				Apr. 5	C	...	37·76
May 30	G	...	120 21 28·17	6	G	...	37·44
Sept. 17	G	22 49 57·88	27·38	8	C	...	38·14
Oct. 14	G	...	28·86	9	G	...	36·69
Dec. 8	W	...	28·86	May 31	G	...	36·74
		22 49 57·88	120 21 28·32	June 3	G	...	36·39
β Piscium.				6	W	23 5 15·26	...
May 30	G	22 56 48·29	86 55 37·37	7	W	17·26	36·19
31	G	...	36·38	8	W	15·19	37·38
ϕ Aquarii.				9	W	18·15	36·20
May 30	G	23 7 7·53	96 47 52·10	10	W	...	35·59
						23 5 16·47	178 14 36·77

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Piscium.				ι Piscium.			
July 25	G	^h ^m ^s ...	87° 28' 33" 59	July 25	G	^h ^m ^s ...	85° 7' 36" 85
Sept. 17	G	23 9 57·65	36·76	Oct. 15	W	...	35·78
Oct. 14	G	...	34·38	16	G	...	35·69
15	W	...	34·88			23 32 48	85 7 36·11
Nov. 5	G	...	37·24	λ Piscium.			
		23 9 57·65	87 28 35·37	June 28	W	23 34 57·32	88 59 4·68
κ Piscium.				ω Piscium.			
June 5	W	...	89 30 17·09	June 28	W	...	83 54 20·38
8	W	...	16·33	Oct. 15	W	...	20·96
Sept. 17	G	23 19 48·44	18·12	16	G	...	21·82
Nov. 5	G	...	18·12	17	W	...	21·59
		23 19 48·44	89 30 17·42			23 52 10	83 54 21·19
ρ Piscium.				σ Piscium.			
June 28	W	23 29 18	88 40 7·13	July 25	G	23 54 41·98	93 48 3·09

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

CATALOGUE

OF

MEAN RIGHT ASCENSIONS

AND

MEAN DECLINATIONS,

FOR

1861⁰,

OF

STARS OBSERVED IN THE YEAR 1861.

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1861°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
1	γ Pegasi.....	3.0	0.00	1	0 6 4.92	+3.081	0.00	2	+14 24 39.15	+20.04
2	β Piscium(1st Star)	6.2	0.87	1	0 7 49.43	+3.084	0.87	1	+ 8 2 57.18	+20.02
3	α Octantis	7.2	0.49	1	0 13 22.63	-1.950	0.49	1	-89 8 10.23	+20.02
4	α Octantis S.P. ...	...	0.49	2	22.64	...	0.49	2	9.16	...
5	δ Piscium	5.6	0.79	2	0 13 26.85	+3.081	0.79	2	+ 7 25 5.95	+20.04
6	β Hydri.....	2.9	0.00	12	0 18 23.33	+3.285	0.00	6	-78 2 14.18	+20.25
7	β Hydri S.P. ....	...	0.00	12	23.30	...	0.00	11	14.95	...
8	α Piscium	7.3	0.82	3	0 18 32.09	+3.085	0.82	3	+ 6 55 21.86	+19.94
9	β Ceti	2.1	...	...	0 36 37	+3.015	0.00	4	-18 45 0.30	+19.83
10	δ Piscium.....	5.7	0.49	1	0 39 46.80	+3.120	0.49	1	+11 11 52.74	+19.74
11	δ Piscium	4.6	0.89	3	0 41 28.46	+3.105	0.89	3	+ 6 49 41.29	+19.69
12	α Piscium	4.5	0.00	1	0 55 43.96	+3.106	0.00	5	+ 7 8 27.92	+19.50
13	ζ Piscium (1st Star)	5.2	0.64	1	1 6 28.42	+3.126	0.64	2	+ 6 50 21.27	+19.16
14	ρ Piscium	5.2	0.94	1	1 18 46.12	+3.217	0.94	1	+18 26 51.84	+18.91
15	η Piscium	3.7	...	...	1 24 3	+3.197	0.00	5	+14 37 42.30	+18.71
16	ι Piscium	6.6	0.79	1	1 28 20.83	+3.196	0.79	1	+13 56 58.80	+18.58
17	ι Piscium	6.1	0.72	1	1 32 11.37	+3.223	0.72	1	+15 41 57.69	+18.44
18	β Arietis.....	2.8	...	...	1 46 58	+3.298	0.00	5	+20 7 37.98	+17.80
19	α Arietis.....	2.0	...	...	1 59 21	+3.365	0.00	5	+22 48 12.70	+17.26
20	η Arietis.....	5.4	0.95	1	2 5 1.55	+3.342	0.95	1	+20 33 21.78	+17.15
21	ϵ Ceti.....	5.5	...	...	2 10 3	+2.987	0.00	3	- 7 3 51.12	+16.80
22	ξ Ceti.....	4.4	...	...	2 20 46	+3.180	0.00	1	+ 7 50 7.13	+16.38
23	γ Arietis	6.5	0.72	1	2 23 11.68	+3.314	0.72	1	+17 5 12.50	+16.17
24	μ Arietis ...	5.8	0.72	1	2 34 32.07	+3.368	0.72	1	+19 25 1.72	+15.62
25	γ Ceti	3.0	...	...	2 36 6	+3.100	0.00	7	+ 2 38 53.17	+15.42
26	α Arietis.....	6.1	0.87	1	2 40 44.73	+3.350	0.87	1	+17 42 8.41	+15.29
27	α Arietis.....	3.8	0.65	1	2 41 48.63	+3.512	0.65	1	+26 41 6.80	+15.13
28	α Arietis	4.6	0.84	5	2 51 16.25	+3.415	0.84	5	+20 46 56.44	+14.70
29	δ Arietis	4.5	0.00	1	3 3 41.22	+3.416	0.00	4	+19 11 54.73	+13.95
30	γ Tauri.....	3.8	0.61	4	3 36 37.66	+3.548	0.61	4	+23 40 23.51	+11.70

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1861°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
31	η Tauri	3·00·00	1	3	39 13·60	+3·551	0·00	3	+23 40 20·90	+11·51
32	27 Tauri.....	3·80·80	4	3	40 54·23	+3·553	0·80	4	+23 37 31·90	+11·38
33	γ^1 Eridani	3·1 ...	...	3	51 33	+2·795	0·00	13	-13 54 22·39	+10·55
34	Δ Tauri	4·50·90	3	3	56 28·95	+3·534	0·90	3	+21 41 57·15	+10·22
35	ϵ^1 Eridani	4·1 ...	...	4	5 5	+2·923	0·00	1	- 7 12 10·03	+ 9·71
36	δ Tauri	4·00·05	1	4	14 55·48	+3·450	0·05	1	+17 12 46·83	+ 8·84
37	ν Tauri	4·60·88	1	4	17 59·68	+3·579	0·88	1	+22 29 41·67	+ 8·59
38	72 Tauri.....	5·50·80	1	4	18 58·94	+3·577	0·80	1	+22 40 46·26	+ 8·54
39	ϵ Tauri	3·7 ...	...	4	20 30	+3·494	0·00	2	+18 52 7·21	+ 8·39
40	α Tauri	1·00·00	1	4	27 56·70	+3·434	0·00	17	+16 13 35·52	+ 7·64
41	τ Tauri	4·40·77	6	4	33 54·39	+3·591	0·88	4	+22 41 12·50	+ 7·33
42	ι Tauri	4·70·96	2	4	54 47·45	+3·579	0·96	2	+21 23 16·48	+ 5·57
43	B.A.C. 1587	5·20·68	2	4	59 12·98	-1·778	0·68	2	-75 8 53·77	+ 5·26
44	B.A.C. 1587 S.P. ...	... 0·68	2		12·89	...	0·68	2	54·32	...
45	β Orionis	1·00·00	2	5	7 51·54	+2·879	0·00	10	- 8 21 53·85	+ 4·52
46	β Tauri	1·9 ...	...	5	17 30	+3·787	0·00	2	+28 29 9·64	+ 3·50
47	δ Orionis	Var. 0·00	2	5	24 54·39	+3·061	0·00	5	- 0 24 17·36	+ 3·04
48	α Leporis	2·70·00	2	5	26 35·98	+2·643	0·00	3	-17 55 28·46	+ 2·91
49	ϵ Orionis	1·80·00	2	5	29 9·68	+3·040	...	...	- 1 18	+ 2·68
50	ζ Tauri	3·00·61	3	5	29 20·28	+3·582	0·61	3	+21 3 14·26	+ 2·64
51	α Columbeæ	2·70·00	3	5	34 37·01	+2·172	0·00	8	-34 9 0·78	+ 2·16
52	χ^1 Orionis	4·70·55	3	5	46 9·26	+3·549	0·68	3	+20 14 48·46	+ 1·10
53	α Orionis	Var. 0·00	1	5	47 39·01	+3·246	0·00	2	+ 7 22 40·95	+ 1·09
54	1 Geminorum ...	4·30·13	2	5	55 40·35	+3·646	0·13	1	+23 16 2·47	+ 0·27
55	ν Orionis	4·4 ...	...	5	59 38	+3·425	0·00	6	+14 46 53·47	0·00
56	η Geminorum ...	Var. 0·30	5	6	6 29·20	+3·622	0·48	7	+22 32 36·07	- 0·59
57	μ Geminorum ...	3·2 ...	...	6	14 33	+3·631	0·00	5	+22 34 51·96	- 1·39
58	γ Geminorum ...	2·0 ...	...	6	29 41	+3·467	0·00	1	+16 30 48·63	- 2·64
59	ϵ Geminorum ...	3·20·41	2	6	35 22·57	+3·694	0·55	2	+25 15 52·51	- 3·11
60	α Canis Majoris...	1·40·00	5	6	39 1·18	+2·644	0·00	8	-16 31 40·99	- 4·61

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861'o.	Annual Variation 1864'o.	Fraction of Year.	No. of Obs.	Mean Dec. 1861'o.	Annual Variation 1864'o.
					h m s	s			° ' "	"
61	ζ Geminorum ...	Var.	0.69	1	6 55 51.83	+ 3.563	0.69	3	+20 46 13.81	- 4.85
62	δ Geminorum ...	3.7	...	...	7 11 49	+ 3.589	0.00	6	+22 14 5.66	- 6.19
63	63 Geminorum ...	5.3	0.89	1	7 19 29.15	+ 3.568	0.89	1	+21 43 27.56	- 6.93
64	υ Geminorum ...	4.2	0.14	4	7 27 21.26	+ 3.707	0.14	2	+27 12 5.13	- 7.58
65	f Geminorum ...	5.2	...	...	7 31 27	+ 3.470	0.96	1	+17 59 14.65	- 7.79
66	α Canis Minoris...	0.5	0.00	5	7 32 1.52	+ 3.145	0.00	2	+ 5 34 41.35	- 8.87
67	κ Geminorum	3.6	0.46	2	7 36 3.08	+ 3.631	0.59	2	+24 43 40.56	- 8.23
68	β Geminorum	1.1	...	...	7 36 48	+ 3.682	0.00	1	+28 21 30.45	- 8.29
69	g Geminorum	5.1	0.59	2	7 38 4.37	+ 3.481	0.59	2	+18 50 44.61	- 8.38
70	φ Geminorum	4.9	0.14	1	7 44 59.15	+ 3.684	0.14	1	+27 7 19.42	- 8.91
71	6 Cancri	5.0	...	...	7 54 59	+ 3.697	0.00	1	+28 10 50.87	- 9.70
72	μ Cancri	5.3	0.59	2	7 59 34.89	+ 3.541	0.69	3	+21 58 56.28	-10.07
73	Α Octantis	7.8	0.32	4	8 19 39.85	-38.217	0.32	4	-88 27 33.70	-11.46
74	Α Octantis S.P. ....	...	0.32	3	39.79	...	0.32	2	34.97	...
75	η Cancri	5.5	...	...	8 24 40	+ 3.480	0.00	6	+20 54 38.86	-11.89
76	39 Cancri	7.0	0.22	1	8 32 6.60	+ 3.458	0.22	1	+20 29 46.22	-12.35
77	40 Cancri	7.3	...	...	8 32 12	+ 3.460	0.22	1	+20 27 34.94	-12.35
78	γ Cancri	4.8	0.07	1	8 35 14.28	+ 3.483	...	...	+21 58	-12.61
79	δ Cancri	4.3	0.56	2	8 36 46.97	+ 3.419	0.56	2	+18 39 44.48	-12.91
80	ε Hydræ	3.6	...	...	8 39 25	+ 3.183	0.00	2	+ 6 55 34.44	-12.89
81	α Cancri	4.3	0.59	2	8 50 52.96	+ 3.289	0.59	2	+12 23 36.50	-13.64
82	ι Argûs	2.2	0.00	2	9 13 22.13	+ 1.601	...	...	-58 42	-14.96
83	α Hydræ	2.0	...	...	9 20 45	+ 2.949	0.00	3	- 8 3 28.88	-15.36
84	ι Sextantis	5.0	0.97	1	9 29 52.33	+ 3.173	0.97	1	+ 7 27 25.36	-15.89
85	ο Leonis	3.8	0.42	3	9 33 43.83	+ 3.209	0.41	4	+10 31 22.65	-16.13
86	ε Leonis	3.1	...	...	9 37 57	+ 3.420	0.00	1	+24 24 45.29	-16.34
87	18 Leonis	6.1	0.07	1	9 38 53.94	+ 3.241	0.07	1	+12 26 55.27	-16.35
88	π Leonis	5.0	...	...	9 52 52	+ 3.176	0.00	2	+ 8 42 34.98	-17.07
89	α Leonis	1.4	...	...	10 0 58	+ 3.202	0.00	8	+12 38 43.01	-17.40
90	γ ¹ Leonis	2.0	0.00	5	10 12 18.36	+ 3.319	0.00	10	+20 32 36.06	-18.02

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1861°o.	Annual Variation 1864°o.
					h m s	s			° ' "	"
91	45 Leonis	5·9	0·38	1	10 20 18·20	+ 3·175	0·38	2	+10 28 12·03	—18·18
92	ρ Leonis.....	4·0	...	...	10 25 29	+ 3·165	0·00	11	+10 1 15·66	—18·37
93	d Leonis.....	5·0	0·15	2	10 53 22·81	+ 3·099	0·15	2	+ 4 21 48·05	—19·23
94	c Leonis.....	5·1	0·00	1	10 53 32·45	+ 3·112	0·00	1	+ 6 50 50·76	—19·22
95	χ Leonis	4·7	...	...	10 57 51	+ 3·097	0·00	2	+ 8 5 13·27	—19·35
96	p ³ Leonis	5·5	0·15	1	11 6 38·64	+ 3·073	0·15	1	+ 0 41 9·88	—19·51
97	φ Leonis	4·5	0·22	1	11 9 35·82	+ 3·049	0·22	1	— 2 56 24·80	—19·60
98	δ Crateris	3·9	...	...	11 12 24	+ 2·993	0·00	15	—14 1 35·71	—19·42
99	e Leonis... ..	5·1	0·19	4	11 23 12·73	+ 3·063	0·19	4	— 2 14 12·80	—19·80
100	v Leonis.....	4·5	...	...	11 29 50	+ 3·070	0·00	12	— 0 3 22·91	—19·84
101	B.A.C. 4006	5·7	0·45	1	11 42 55·88	+ 3·064	0·45	1	— 4 33 36·70	—20·01
102	β Virginis.....	3·7	0·15	2	11 43 27·25	+ 3·124	0·15	2	+ 2 32 52·62	—20·27
103	η Crateris	5·0	...	...	11 48 56	+ 3·047	0·19	4	—16 22 36·39	—20·02
104	ε Corvi	3·1	...	...	12 2 59	+ 3·074	0·00	2	—21 50 48·42	—20·03
105	η Virginis.....	4·1	0·00	1	12 12 47·86	+ 3·066	0·00	3	+ 0 6 22·22	—20·05
106	q Virginis.....	5·7	0·13	3	12 26 36·38	+ 3·088	0·13	3	— 8 41 4·20	—19·91
107	β Corvi	2·8	0·00	1	12 27 5·53	+ 3·135	0·00	17	—22 37 38·72	—19·97
108	f Virginis	5·9	0·23	1	12 29 38·02	+ 3·084	...	...	— 5 4	—19·91
109	Lacaille 5235.....	6·6	0·49	3	12 30 3·09	+13·802	0·49	3	—89 2 7·66	—19·88
110	Lacaille 5235 S.P. ...	0·49	2		2·88	...	0·49	1	7·07	...
111	χ Virginis	4·7	0·45	3	12 32 4·52	+ 3·089	0·45	3	— 7 13 46·40	—19·88
112	γ ¹ Virginis	3·0	0·00	4	12 34 37·05	+ 3·036	0·00	4	— 0 41 8·78	—19·81
113	28 Virginis	7·0	0·16	2	12 34 46·47	+ 3·095	0·16	2	— 6 44 6·98	—19·85
114	ψ Virginis.....	5·0	0·42	2	12 47 7·60	+ 3·111	0·53	1	— 8 46 58·18	—19·65
115	θ Virginis.....	4·4	...	...	13 2 45	+ 3·098	0·00	6	— 4 47 44·61	—19·34
116	61 Virginis	4·8	0·31	1	13 11 8·52	+ 3·125	0·31	1	—17 32 13·28	—20·15
117	α Virginis.....	1·2	...	...	13 17 52	+ 3·150	0·00	22	—10 26 4·16	—18·92
118	λ Virginis.....	5·5	0·38	4	13 25 39·12	+ 3·149	0·38	4	— 9 26 50·08	—18·69
119	ζ Virginis.....	3·5	...	...	13 27 37	+ 3·051	0·00	1	+ 0 6 57·48	—18·55
120	83 Virginis	5·8	0·16	1	13 37 0·15	+ 3·224	0·16	1	—15 28 42·33	—18·29

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1861°0.	Annual Variation 1864°0.
					h m s	s			° ' "	"
121	85 Virginia.....	6·5	0·46	1	13 38 6·37	+ 3·216	...	...	—15 4	—18·27
122	89 Virginia.....	5·2	0·31	3	13 42 19·58	+ 3·245	0·27	2	—17 26 23·11	—18·12
123	7 Boötis.....	2·9	...	...	13 48 4	+ 2·857	0·00	2	+19 5 47·35	—18·21
124	β Centauri.....	0·8	0·90	2	13 54 3·03	+ 4·157	...	...	—59 42	—17·65
125	B.A.C. 4700.....	5·3	0·18	3	14 3 15·29	+ 3·264	0·18	3	—15 38 36·48	—17·21
126	B.A.C. 4722	5·5	0·24	2	14 7 44·80	+ 3·296	0·24	2	—17 33 1·17	—17·01
127	α Boötis.....	0·0	...	...	14 9 19	+ 2·733	0·00	17	+19 54 28·30	—18·92
128	λ Virginis.....	4·6	0·57	2	14 11 35·61	+ 3·234	0·56	3	—12 43 44·14	—16·80
129	B.A.C. 4767	5·4	0·24	2	14 16 53·33	+ 3·410	0·24	2	—24 10 23·05	—16·57
130	z Octantis	6·5	0·53	7	14 24 4·63	+21·667	0·53	9	—87 34 10·39	—16·27
131	z Octantis S.P....	...	0·54	6	4·81	...	0·54	5	10·43	...
132	α ² Centauri	1	0·86	5	14 30 10·66	+ 4·022	0·96	1	—60 15 35·00	—15·10
133	56 Hydræ	5·7	0·54	1	14 39 38·51	+ 3·479	0·54	2	—25 30 7·47	—15·40
134	α Libræ	3·0	0·00	1	14 43 11·61	+ 3·305	0·00	25	—15 27 41·50	—15·24
135	γ Scorpii 1 Hev....	3·3	0·32	9	14 55 56·51	+ 3·493	0·32	9	—24 43 58·44	—14·45
136	α ¹ Libræ	4·9	0·37	9	15 4 18·31	+ 3·405	0·39	10	—19 15 45·92	—13·94
137	β Libræ	2·7	...	...	15 9 32	+ 3·218	0·00	13	— 8 52 2·09	—13·58
138	ζ Libræ	6·2	0·54	1	15 20 25·43	+ 3·376	0·54	2	—16 13 43·43	—12·55
139	Scorpii 3 Hev.....	3·9	0·46	1	15 28 35·70	+ 3·623	0·46	1	—27 40 17·65	—12·29
140	α Serpentis.....	2·7	...	...	15 37 25	+ 2·949	0·00	10	+ 6 51 56·88	—11·62
141	π Scorpii.....	3·1	0·39	1	15 50 26·76	+ 3·613	0·39	1	—25 42 36·69	—10·76
142	δ ¹ Scorpii.....	2·5	0·16	2	15 52 7·30	+ 3·534	0·16	2	—22 13 21·93	—10·63
143	β ¹ Scorpii	2½	...	...	15 57 22	+ 3·475	0·00	7	—19 25 18·52	—10·24
144	ν Scorpii.....	4½	0·26	3	16 3 55·30	+ 3·474	0·26	3	—19 5 46·08	— 9·73
145	δ Ophiuchi.....	2·8	0·00	1	16 7 3·85	+ 3·136	0·00	6	— 3 19 59·92	— 9·61
146	σ Scorpii.....	3·0	0·47	6	16 12 44·69	+ 3·633	0·47	6	—25 15 20·42	— 9·04
147	α Scorpii.....	1·1	0·00	1	16 20 53·34	+ 3·665	0·00	23	—26 7 11·13	— 8·42
148	τ Scorpii.....	2·9	0·16	1	16 27 14·12	+ 3·722	0·16	1	—27 55 25·17	— 7·91
149	α Trianguli Aust.	1·9	0·00	3	16 33 58·68	+ 6·277	...	...	—68 46	— 7·38
150	α Herculis.....	Var.	...	..	17 8 19	+ 2·732	0·00	3	+14 33 6·67	— 4·44

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861'o.	Annual Variation 1864'o.	Fraction of Year.	No. of Obs.	Mean Dec. 1861'o.	Annual Variation 1864'o.
					h m s	s			° ' "	"
151	θ Ophiuchi.....	3'4	...	...	17 13 28	+ 3'677	0'00	6	—24 51 23'46	— 4'06
152	B.A.C. 5868.....	7½	0'24	1	17 16 35'62	+ 3'660	0'24	1	—24 6 45'68	— 3'75
153	δ Ophiuchi.....	4'4	0'44	5	17 18 28'90	+ 3'820	0'49	3	—29 44 12'99	— 3'74
154	β Draconis.....	3'0	...	...	17 27 17	+ 1'351	0'00	1	+52 24 24'56	— 2'84
155	α Ophiuchi.....	2'2	...	...	17 28 29	+ 2'781	0'00	2	+12 39 51'80	— 2'95
156	σ Octantis.....	5'5	0'32	1	17 52 22'46	+109'673	0'00	3	—89 16 41'62	— 0'27
157	σ Octantis S.P....	...	...	...	...	...	0'00	13	41'92	...
158	γ^1 Sagittarii.....	Var.	0'47	1	17 56 8'49	+ 3'831	0'47	1	—29 34 53'17	— 0'33
159	μ Sagittarii.....	4'1	...	...	18 5 27	+ 3'586	0'00	2	—21 5 27'43	+ 0'49
160	δ Sagittarii.....	2'8	0'42	3	18 12 5'72	+ 3'841	0'47	2	—29 52 57'84	+ 1'05
161	λ Sagittarii.....	3'1	0'42	3	18 19 23'51	+ 3'702	0'42	3	—25 29 39'67	+ 1'51
162	α Lyre.....	0'2	0'00	4	18 32 13'99	+ 2'030	0'00	1	+38 39 23'18	+ 3'12
163	ϕ Sagittarii.....	3'3	0'54	3	18 36 58'28	+ 3'749	0'47	4	—27 7 47'04	+ 3'22
164	σ Sagittarii.....	2'3	0'48	6	18 46 38'67	+ 3'722	0'48	5	—26 27 54'67	+ 4'00
165	π Sagittarii.....	3'1	0'40	2	19 1 29'73	+ 3'571	0'32	2	—21 14 25'87	+ 5'30
166	ω Aquilæ.....	5'1	...	...	19 11 17	+ 2'815	0'00	1	+11 20 52'04	+ 6'18
167	ρ Sagittarii.....	3'9	0'62	1	19 13 36'56	+ 3'483	0'62	1	—18 6 18'54	+ 6'37
168	ν Sagittarii.....	4'7	0'77	1	19 13 45'84	+ 3'439	0'77	1	—16 12 43'79	+ 6'35
169	λ^2 Sagittarii.....	4'6	...	...	19 28 15	+ 3'656	0'00	3	—25 11 11'16	+ 7'54
170	ϵ Sagittarii.....	5'0	0'74	4	19 34 33'94	+ 3'436	0'74	4	—16 26 46'03	+ 8'05
171	γ Aquilæ.....	2'8	...	...	19 39 39	+ 2'852	0'00	2	+10 16 38'89	+ 8'47
172	α Aquilæ.....	1'0	...	...	19 44 0	+ 2'927	0'00	11	+ 8 30 14'85	+ 9'19
173	g Sagittarii.....	5'0	0'70	2	19 50 3'83	+ 3'407	0'70	2	—15 51 24'65	+ 9'20
174	α^2 Capricorni...	3'8	...	...	20 10 20	+ 3'334	0'00	4	—12 58 20'90	+10'83
175	β Capricorni.....	3'4	0'47	1	20 13 11'78	+ 3'377	0'47	1	—15 13 1'42	+11'05
176	α Pavonis.....	2'1	0'00	3	20 14 37'56	+ 4'799	...	...	—57 11	+11'11
177	ρ Capricorni.....	5'0	...	...	20 20 56	+ 3'429	0'00	4	—18 16 12'29	+11'58
178	τ Capricorni.....	5'3	0'78	2	20 31 29'94	+ 3'362	0'78	2	—15 26 20'56	+12'31
179	B Octantis.....	6'6	0'34	7	20 39 16'27	+110'979	0'34	7	—89 28 38'64	+13'21
180	B Octantis S.P....	...	0'33	8	16'93	...	0'33	10	39'86	...
181	ϵ Aquarii.....	3'8	0'70	1	20 40 9'01	+ 3'252	0'70	1	—10 0 6'86	+12'89

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1861°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1861°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
182	θ Capricorni.....	4·3	0·63	4	20 58 7·81	+ 3·381	0·63	4	—17 46 56·60	+14·02
183	ν Aquarii	4·6	0·68	3	21 2 1·24	+ 3·274	0·68	3	—11 55 54·01	+14·31
184	ζ Cygni	3·5	...	...	21 7 1	+ 2·549	0·00	1	+29 39 26·56	+14·55
185	ε Capricorni	4·4	0·63	1	21 14 30·34	+ 3·348	0·63	1	—17 25 26·36	+15·07
186	β Aquarii	3·1	...	...	21 24 14	+ 3·162	0·00	5	— 6 10 49·32	+15·61
187	ξ Aquarii	4·8	0·73	3	21 30 21·09	+ 3·199	0·73	3	— 8 28 30·95	+15·92
188	ε Pegasi.....	2·4	...	...	21 37 22	+ 2·946	0·00	1	+ 9 14 21·93	+16·31
189	30 Aquarii	5·6	0·86	1	21 55 57·63	+ 3·160	0·86	1	— 7 11 13·97	+17·21
190	α Aquarii	3·2	0·00	1	21 58 38·64	+ 3·083	0·00	3	— 0 59 36·31	+17·32
191	ι Aquarii	4·3	0·63	1	21 58 55·64	+ 3·246	0·63	1	—14 32 31·80	+17·28
192	α Gruis	1·9	...	...	21 59 27	+ 3·817	0·00	4	—47 37 56·66	+17·17
193	ο Octantis	5·7	0·38	2	22 3 48·51	+14·077	0·38	2	—86 40 7·62	+17·64
194	ο Octantis S.P....	...	0·38	3	48·85	...	0·37	4	8·41	...
195	θ Aquarii	4·3	0·00	1	22 9 29·66	+ 3·170	0·00	7	— 8 28 25·52	+17·76
196	γ Aquarii	4·1	0·75	4	22 14 28·62	+ 3·100	0·75	4	— 2 5 10·30	+17·99
197	π Aquarii	4·6	0·78	2	22 18 10·76	+ 3·064	0·78	2	+ 0 40 25·17	+18·11
198	η Aquarii	4·2	...	...	22 28 13	+ 3·084	0·00	1	— 0 49 58·46	+18·42
199	ζ Pegasi.....	3·6	...	...	22 34 32	+ 2·990	0·00	2	+10 6 25·03	+18·66
200	α Piscis Australis	1·3	0·00	1	22 49 57·88	+ 3·330	0·00	4	—30 21 28·32	+18·97
201	β Piscium.....	4·6	0·64	4	22 56 48·24	+ 3·052	0·59	5	+ 3 4 21·69	+19·29
202	α Pegasi	2·6	...	...	22 57 50	+ 2·983	0·00	1	+14 27 29·07	+19·30
203	τ Octantis.....	5·6	0·43	3	23 5 16·74	+13·212	0·43	2	—88 14 36·23	+19·52
204	τ Octantis S.P....	...	0·43	4	16·47	...	0·35	11	36·77	...
205	φ Aquarii	4·2	0·41	1	23 7 7·53	+ 3·109	0·41	1	— 6 47 52·10	+19·34
206	γ Piscium.....	3·8	0·00	1	23 9 57·65	+ 3·108	0·00	5	+ 2 31 24·63	+19·60
207	κ Piscium	5·0	0·00	1	23 19 48·44	+ 3·074	0·00	4	+ 0 29 42·58	+19·65
208	16 Piscium	5·6	...	...	23 29 18	+ 3·059	0·49	1	+ 1 19 52·87	+19·94
209	ι Piscium	4·3	...	...	23 32 48	+ 3·082	0·00	3	+ 4 52 23·89	+19·47
210	λ Piscium.....	4·7	0·49	1	23·34 57·32	+ 3·059	0·49	1	+ 1 0 55·32	+19·80
211	ω Piscium.....	4·2	...	...	23 52 10	+ 3·076	0·00	4	+ 6 5 38·81	+19·94
212	29 Piscium	5·1	0·56	1	23 54 41·98	+ 3·074	0·56	1	— 3 48 3·09	+20·05

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

SEPARATE RESULTS

OF

MERIDIAN OBSERVATIONS OF STARS

MADE IN THE YEAR

1862,

REDUCED TO MEAN PLACE FOR 1862⁰.

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
Lalande 47300.				Lalande 261.			
Oct. 28	T	h m s 0 0 40	93 19 00.91	Oct. 10	T	...	89 4 42.44
α Andromedæ.				12	T	...	41.58
Nov. 26	G	0 1 15.53	...	13	T	...	42.79
28	G	15.58	...	15	T	...	42.31
29	W	15.65	...	19	T	...	43.90
Dec. 1	G	15.48	...	20	T	...	43.52
		0 1 15.56	61 40	21	T	...	42.69
Lalande 47374.				22	T	...	44.41
Oct. 20	T	...	93 19 43.37	23	T	...	42.67
21	T	...	43.98	24	W	...	42.85
23	T	...	43.92	25	T	...	42.81
24	W	...	43.82	27	T	...	42.12
25	T	...	42.92	28	T	...	42.96
27	T	...	43.38	31	T	...	42.53
30	T	...	43.77	Nov. 1	T	...	42.72
31	T	...	44.32	2	T	...	42.93
Nov. 1	T	...	43.36	3	T	...	42.28
2	T	...	43.99	23	T	0 10 42.49	...
3	T	...	43.83	24	G	42.59	...
23	T	0 2 51.14	...	25	T	42.62	...
24	G	51.23	...	26	G	42.66	...
25	T	51.27	...	27	T	42.59	...
26	G	51.22	...	28	G	42.55	...
28	G	51.26	...	29	W	42.50	...
29	W	51.25	...			0 10 42.57	89 4 42.80
Dec. 1	G	51.18	...	δ Piscium.			
		0 2 51.22	93 19 43.70	Sept. 8	G	0 13 30.02	82 34 35.51
				9	CF	29.84	35.11
						0 13 29.93	82 34 35.31

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
44 Piscium.				β Hydri—continued.			
Oct. 10	T	h m s	° ' "	May 1	G	h m s	° ' "
12	T	...	88 49 29.30	2	G	o 18 26.59	168 1 53.57
13	T	...	28.77	9	G	26.41	54.54
15	T	...	29.71	11	G	26.55	54.74
19	T	...	30.04	Dec. 1	G	26.94	...
20	T	...	29.33	2	CF	...	53.77
21	T	...	28.81	4	G	...	53.71
22	T	...	29.35	5	G	26.54	54.30
23	T	...	28.46	10	G	26.14	54.47
24	W	...	27.95	18	G	...	54.32
25	T	...	29.40	19	G	26.30	...
27	T	...	28.46	22	G	26.28	...
28	T	...	28.19			26.72	...
29	T	...	29.35			o 18 26.48	168 1 54.15
30	T	...	29.09	β Hydri S.P.			
31	T	...	27.39	Jan. 22	G	...	168 1 54.30
Nov. 1	T	...	27.76	23	G	...	57.95
2	T	...	29.38	24	G	...	55.92
3	T	...	28.48	27	G	o 18 26.66	52.24
22	T	o 18 19.98	...	28	G	26.62	54.48
23	T	19.85	...	29	G	25.84	53.43
24	G	19.83	...	May 1	G	26.57	55.59
25	T	19.95	...	2	G	26.46	...
26	G	19.85	...	3	G	26.43	...
27	T	19.83	...	9	W	26.44	54.71
28	G	19.82	...	10	G	26.24	53.78
29	W	19.81	...	11	W	26.70	54.03
		o 18 19.87	88 49 28.85	12	G	26.92	...
β Hydri.				Dec. 4	G	26.32	...
Jan. 27	G	o 18 26.72	168 1 52.72	5	G	26.19	...
28	G	26.31	...	18	G	26.25	...
29	G	26.51	55.61	22	G	26.17	...
Apr. 10	G	...	53.90			o 18 26.42	168 1 54.64
30	G	26.27	...				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
45 Piscium.				15 Ceti.			
June 19	G	^h 18 ^m 34 ^s 99	[°] 83 ['] 3 [°]	Oct. 2	T	^h ... ^m ... ^s ...	[°] 91 15' 47.15
Lalande 670.				3	T	...	45.71
Oct. 2	T	...	85 54 12.91	5	T	...	46.31
3	T	...	13.33	6	T	...	44.71
6	T	...	13.42	10	T	...	46.06
10	T	...	13.35	12	T	...	45.86
12	T	...	12.98	13	T	...	46.71
13	T	...	13.10	15	T	...	46.39
15	T	...	13.87	19	T	...	45.82
19	T	...	12.57	Nov. 22	T	0 31 1.42	...
20	T	...	13.22	23	T	1.31	...
21	T	...	12.89	24	G	1.26	...
22	T	...	12.60	25	T	1.41	...
23	T	...	13.29	26	G	1.32	...
24	W	...	13.47	27	T	1.36	...
25	T	...	12.50	28	G	1.39	...
27	T	...	12.85				0 31 1.35 91 15 46.08
28	T	...	12.20	β Ceti.			
30	T	...	12.49	Nov. 26	G	0 36 39.70	...
31	T	...	12.63	28	G	39.65	...
Nov. 1	T	...	12.76	29	W	39.61	...
2	T	...	13.72	Dec. 1	G	39.73	108 44 39.22
3	T	...	12.14	10	G	...	41.45
22	T	0 23 3.21	...				0 36 39.67 108 44 40.34
24	G	3.21	...	60 Piscium.			
25	T	3.28	...	Oct. 2	T	...	84 0 46.82
26	G	3.23	...	3	T	...	46.27
27	T	3.09	...	5	T	...	45.27
28	G	3.14	...	6	T	...	47.45
29	W	3.14	...				
			0 23 3.19 85 54 12.97				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
60 Piscium—continued.				δ Piscium—continued.			
Nov. 22	T	^h 0 ^m 40 ^s 15.62	... °	Aug. 25	T	^h ... ^m ... ^s ...	83° 9' 58".02
23	T	15.64	...	26	T	...	59.61
24	G	15.58	...	29	T	...	59.92
26	G	15.66	...	31	T	...	59.79
27	T	15.62	...	Sept. 1	T	...	59.07
28	G	15.60	...	2	T	...	59.77
		0 40 15.62	84 0 46.45	3	T	...	59.27
Lalande 1299.				4	T	...	59.93
Oct. 21	T	...	85 25 45.49	5	T	...	59.49
22	T	...	46.85	8	T	...	60.83
23	T	...	46.56	9	CF	0 41 31.63	59.11
24	W	...	46.92	10	G	31.49	59.13
25	T	...	46.51	12	T	...	59.00
27	T	...	46.21	13	T	...	58.94
28	T	...	46.10	18	T	...	59.05
30	T	...	45.87	19	T	...	59.76
31	T	...	46.88	22	T	...	58.67
Nov. 1	T	...	46.37	23	T	...	61.43
2	T	...	46.60	24	T	...	60.16
3	T	...	44.38	Nov. 24	G	31.61	...
25	T	0 41 8.92	...	26	G	31.61	...
29	W	8.86	...	28	G	31.55	...
Dec. 4	G	8.97	...	30	W	31.62	58.05
5	G	9.03	...	Dec. 1	G	31.61	58.52
		0 41 8.95	85 25 46.23	2	CF	31.50	...
δ Piscium.						0 41 31.58	83 9 59.41
20 Ceti.							
Aug. 21	T	...	83 9 59.20	Ang. 21	T	...	91 53 38.08
22	T	...	58.91	22	T	...	39.16
23	T	...	59.09	23	T	...	38.62
24	T	...	60.62	24	T	...	38.85
				25	T	...	38.64
				26	T	...	39.16

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
20 Ceti—continued.				ε Piscium.			
Aug. 29	T	^h ^m ^s ...	91° 53' 39".86	Jan. 7	G	^h ^m ^s ...	82° 51' 13".00
31	T	...	39".26	July 17	W	...	12".46
Sept. 1	T	...	38".73	Sept. 9	CF	...	12".20
2	T	...	38".13	10	G	...	12".38
3	T	...	38".93	Nov. 29	W	0 55 47".04	...
4	T	...	38".86	30	W	...	11".43
5	T	...	38".85	Dec. 1	G	46".94	11".47
8	T	...	39".76			0 55 46".99	82 51 12".16
12	T	...	38".94	26 Ceti.			
13	T	...	39".20	Aug. 21	T	...	89 22 24".56
18	T	...	39".28	22	T	...	25".03
22	T	...	40".50	23	T	...	25".25
23	T	...	39".76	24	T	...	24".81
24	T	...	38".26	25	T	...	24".52
Oct. 2	T	...	39".21	26	T	...	24".16
3	T	...	38".87	29	T	...	24".89
5	T	...	38".65	31	T	...	25".56
6	T	...	38".98	Sept. 1	T	...	25".24
21	T	...	38".90	2	T	...	24".47
22	T	...	38".78	3	T	...	24".64
23	T	...	38".94	4	T	...	24".60
24	W	...	39".75	5	T	...	24".85
25	T	...	39".04	8	T	...	26".18
27	T	...	38".55	12	T	...	24".64
28	T	...	38".69	13	T	...	24".96
30	T	...	38".34	18	T	...	24".93
31	T	...	38".93	19	T	...	24".78
Nov. 1	T	...	38".35	22	T	...	24".67
2	T	...	39".37	23	T	...	26".32
3	T	...	38".56	24	T	...	26".99
22	T	0 45 57".60	...	Oct. 10	T	...	24".90
23	T	57".36	...	12	T	...	25".22
24	G	57".35	...	13	T	...	24".98
25	T	57".55	...				
26	G	57".51	...				
27	T	57".48	...				
		0 45 57".48	91 53 38".97				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
26 Ceti—continued.				29 Ceti—continued.			
Oct. 15	T	^h ^m ^s ...	89° 22' 25".89	Nov. 22	T	^h ^m ^s 53".08	° ... "
18	T	...	25".03	23	T	52".87	...
19	T	...	24".29	24	G	52".81	...
21	T	...	24".80	25	T	52".82	...
22	T	...	24".65	26	G	52".90	...
23	T	...	24".84	Dec. 4	T	53".06	...
24	W	...	25".44			I 0 52".92	88 43 43".90
25	T	...	24".47	e Piscium.			
27	T	...	24".81	Aug. 21	T	...	85 4 52".32
28	T	...	24".25	23	T	...	52".02
30	T	...	24".35	24	T	...	52".05
31	T	...	24".59	25	T	...	51".41
Nov. 1	T	...	24".04	26	T	...	52".00
2	T	...	24".69	29	T	...	53".56
22	T	0 56 43".17	...	31	T	...	53".01
23	T	43".03	...	Sept. 1	T	...	52".71
24	G	43".04	...	2	T	...	52".03
25	T	43".00	...	3	T	...	52".14
26	G	43".02	...	4	T	...	52".03
27	T	43".09	...	5	T	...	52".11
		0 56 43".06	89 22 24".93	8	T	...	53".85
29 Ceti.				12	T	...	52".02
Oct. 21	T	...	88 43 44".09	13	T	...	52".33
22	T	...	44".19	18	T	...	54".77
23	T	...	43".74	19	T	...	52".98
24	W	...	44".44	22	T	...	53".07
25	T	...	43".82	23	T	...	53".85
27	T	...	44".23	24	T	...	53".04
28	T	...	43".19	Oct. 10	T	...	52".94
30	T	...	43".45	12	T	...	52".19
31	T	...	44".26	13	T	...	51".97
Nov. 1	T	...	43".33	15	T	...	52".14
2	T	...	44".19	19	T	...	53".63

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>e Piscium—continued.</i>				<i>43 Ceti—continued.</i>			
Nov. 27	T	^h 1 ^m 15 ^s 89	° ... "	Nov. 23	T	^h 1 ^m 15 ^s 31 ^s 46	° ... "
29	W	15 ^s 71	...	24	G	31 ^s 47	...
30	W	15 ^s 83	...	25	T	31 ^s 40	...
Dec. 2	GF	15 ^s 81	...	26	G	31 ^s 55	...
5	G	15 ^s 84	...	27	T	31 ^s 47	...
		1 1 15 ^s 82	85 4 52 ^s 65	28	G	31 ^s 45	...
<i>f Piscium.</i>				<i>43 Ceti—continued.</i>			
Oct. 2	T	...	87 6 47 ^s 69			1 15 31 ^s 47	91 10 20 ^s 54
3	T	...	48 ^s 53	<i>43 Ceti.</i>			
5	T	...	46 ^s 86	Jan. 7	G	1 17 7	98 53 47 ^s 48
6	T	...	46 ^s 90	<i>94 Piscium.</i>			
10	T	...	47 ^s 40	July 17	W	1 19 14 ^s 77	71 28 32 ^s 11
13	T	...	46 ^s 74	18	G	14 ^s 75	32 ^s 77
15	T	...	47 ^s 85			1 19 14 ^s 76	71 28 32 ^s 44
19	T	...	47 ^s 18	<i>Bradley 191.</i>			
Nov. 22	T	1 10 41 ^s 14	...	Sept. 25	T	...	91 7 1 ^s 22
23	T	40 ^s 98	...	Oct. 2	T	...	1 ^s 37
24	G	40 ^s 92	...	3	T	...	0 ^s 84
25	T	41 ^s 09	...	5	T	...	0 ^s 21
26	G	41 ^s 10	...	6	T	...	1 ^s 84
27	T	41 ^s 09	...	Nov. 22	T	1 19 23 ^s 84	...
		1 10 41 ^s 05	87 6 47 ^s 39	23	T	23 ^s 77	...
<i>43 Ceti.</i>				24	G	23 ^s 79	...
Sept. 25	T	...	91 10 20 ^s 45	25	T	23 ^s 73	...
Oct. 2	T	...	21 ^s 04	26	G	23 ^s 84	...
3	T	...	20 ^s 86	27	T	23 ^s 72	...
5	T	...	17 ^s 83			1 19 23 ^s 78	91 7 1 ^s 10
6	T	...	21 ^s 16				
12	T	...	21 ^s 25				
13	T	...	20 ^s 46				
15	T	...	20 ^s 40				
19	T	...	21 ^s 43				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
μ Piscium.				η Piscium—continued.			
Aug. 21	T	^h ^m ^s ...	84° 34' 6.77	Sept. 10	G	^h ^m ^s ...	75° 21' 59.87
22	T	...	7.16	11	CF	...	59.73
23	T	...	6.55	Dec. 1	G	1 24 6.37	59.11
24	T	...	7.08	2	CF	...	60.23
25	T	...	6.36			1 24 6.37	75 21 59.75
26	T	...	6.47	B.A.C. 477.			
31	T	...	7.22				
Sept. 1	T	...	6.95	Dec. 1	G	1 28 27.17	73 16 25.90
2	T	...	6.70	ν Piscium.			
3	T	...	7.41				
4	T	...	6.78	Aug. 21	T	...	85 12 42.58
5	T	...	6.71	22	T	...	42.48
8	T	...	8.55	23	T	...	42.06
12	T	...	6.58	24	T	...	42.65
13	T	...	6.19	29	T	...	42.52
18	T	...	7.15	31	T	...	43.15
22	T	...	6.89	Sept. 1	T	...	42.21
23	T	...	8.02	2	T	...	42.61
24	T	...	7.57	3	T	...	43.09
25	T	...	6.53	4	T	...	42.47
Oct. 2	T	...	7.84	5	T	...	43.21
3	T	...	7.91	8	T	...	42.73
5	T	...	7.35	12	T	...	42.26
6	T	...	6.88	13	T	...	42.19
Nov. 22	T	1 22 57.58	...	18	T	...	43.10
23	T	57.49	...	22	T	...	43.19
24	G	57.46	...	23	T	...	43.54
25	T	57.64	...	24	T	...	43.35
26	G	57.55	...				
27	T	57.49	...	Nov. 26	G	1 34 15.27	...
		1 22 57.54	84 34 7.07			1 34 15.27	85 12 42.74
η Piscium.							
Jan. 7	G	...	75 21 59.46				
July 17	W	...	59.69				
18	G	...	60.19				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
Lalande 3298.				ξ Piscium—continued.			
Aug. 22	T	^h ^m ^s ...	87° 0' 16.40	Sept. 1	T	^h ^m ^s ...	87° 29' 42.83
23	T	...	16.44	2	T	...	41.31
24	T	...	16.75	3	T	...	42.27
25	T	...	16.65	4	T	...	42.35
26	T	...	15.68	8	T	...	42.82
29	T	...	17.85	12	T	...	41.20
31	T	...	18.19	13	T	...	41.86
Sept. 1	T	...	16.91	18	T	...	43.21
2	T	...	16.70	19	T	...	41.75
3	T	...	17.46	22	T	...	41.95
4	T	...	17.50	23	T	...	42.99
5	T	...	18.06	24	T	...	43.41
8	T	...	17.29	Nov. 22	T	I 46 24.94	...
12	T	...	16.59	23	T	24.86	...
13	T	...	16.38	24	G	24.87	...
18	T	...	17.92	25	T	24.93	...
22	T	...	16.76	26	G	24.95	...
23	T	...	18.14	27	T	24.89	...
24	T	...	16.81			I 46 24.91	87 29 42.17
Nov. 22	T	I 41 17.36	...	β Arietis.			
23	T	17.35	...	Jan. 8	W	...	69 52 5.02
24	G	17.26	...	9	G	...	5.66
25	T	17.41	...	Sept. 10	G	...	5.21
26	G	17.34	...	11	CF	...	4.79
27	T	17.33	...	Nov. 4	G	...	5.96
		I 41 17.31	87 0 17.08			I 47 I	69 52 5.33
ξ Piscium.				α Arietis.			
Aug. 21	T	...	87 29 41.71	Jan. 8	W	...	67 11 30.13
22	T	...	42.36	9	G	...	31.31
23	T	...	41.30	Nov. 4	G	...	32.10
24	T	...	41.51	26	G	I 59 24.00	...
25	T	...	41.32	29	W	24.03	...
29	T	...	42.38				
31	T	...	42.79				

Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
<i>α Arietis—continued.</i>				<i>π Arietis.</i>			
Dec. 1	G	^h 1 ^m 59 ^s 24·12	° ...	Sept. 11	CF	^h 2 ^m 41 ^s 35·89	73° 6' 42·40
28	T	...	67 11 29·43	12	G	35·81	41·76
29	T	...	29·34			2 41 35·85	73 6 42·08
30	T	...	29·56				
		1 59 24·05	67 11 30·31	<i>41 Arietis.</i>			
<i>η Arietis.</i>				Jan. 9	G	2 41 52·06	63 18 39·94
July 18	G	2 5 4·86	69 26 21·13	<i>ε Arietis.</i>			
<i>θ Arietis.</i>				Jan. 9	G	2 51 19·63	69 12 50·12
July 18	G	2 10 27·24	70 44 20·09	10	W	19·59	49·95
Dec. 29	T	27·39	19·31	Nov. 6	G	...	51·30
30	T	27·30	...			2 51 19·61	69 12 50·46
31	CF	...	19·20	<i>α Ceti.</i>			
		2 10 27·31	70 44 19·53	Jan. 9	G	...	86 27 14·51
<i>31 Arietis.</i>				Mar. 31	G	...	13·26
Dec. 3	G	2 29 7	78 9 11·68	Aug. 25	T	...	13·20
<i>ν Arietis.</i>				Sept. 12	G	...	14·28
Sept. 11	CF	2 30 59·26	68 38 15·41	Nov. 26	G	2 55 4·14	...
12	T	...	14·60	29	W	4·13	...
		2 30 59·26	68 38 15·01	Dec. 31	CF	...	13·89
<i>μ Arietis.</i>						2 55 4·14	86 27 13·83
Dec. 3	G	2 34 35	70 34 45·73	<i>δ Arietis.</i>			
				Sept. 12	G	...	70 47 52·05
				Dec. 30	T	...	50·27
				31	CF	...	50·05
						3 3 45	70 47 50·79

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Arietis.				γ Hydri—continued.			
Dec. 4	CF	^h 3 ^m 6 ^s 58.60	69° 28' 10".46	Mar. 13	G	^h 3 49 ^m 24.85	164° 39' 38".39
30	T	58.56	9.64	14	G	24.91	38.30
31	CF	58.54	10.75	31	G	...	40.17
		3 6 58.57	69 28 10.28			3 49 25.02	164 39 39.65
17 Tauri.				γ Hydri S.P.			
Sept. 12	G	3 36 41.26	66 19 24.67	Feb. 28	G	...	164 39 39.43
13	CF	41.12	24.32	Mar. 1	G	...	39.52
Nov. 6	G	...	25.60	11	G	3 49 25.23	40.54
7	CF	41.15	24.20	12	G	25.27	39.12
		3 36 41.18	66 19 24.70	13	G	24.53	41.21
η Tauri.				14	G	24.70	...
Jan. 10	W	...	66 19 27.90	30	G	25.05	39.78
Dec. 31	CF	...	29.85	Apr. 2	G	...	41.06
		3 39 17	66 19 28.88	3	G	...	40.05
27 Tauri.						3 49 24.96	164 39 40.09
Sept. 13	CF	3 40 57.87	66 22 18.23	γ^1 Eridani.			
Nov. 6	G	...	18.66	Jan. 2	W	...	103 54 11.34
7	CF	57.65	17.19	11	G	...	13.21
		3 40 57.76	66 22 18.03	Feb. 8	G	...	12.82
γ Hydri.				Sept. 12	G	...	12.01
Feb. 28	G	...	164 39 39.75	Nov. 6	G	...	12.80
Mar. 1	G	...	39.74			3 51 35	103 54 12.44
2	G	...	40.93	A Tauri.			
12	G	3 49 25.30	40.25	Jan. 11	G	3 56 32.44	68 17 54.06
				Feb. 8	G	32.42	53.38
				Dec. 4	CF	32.49	53.75
				5	G	32.57	52.93
				31	CF	32.54	54.29
						3 56 32.49	68 17 53.68

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
o' Eridani.				B.A.C. 1454.			
Jan. 2	W	^h ^m ^s	97° 11' 58".71	Aug. 23	G	^h ^m ^s	171° 53' 16".30
Sept. 13	CF	... ..	60.68	25	G	... ..	15.32
		4 5 8	97 11 59.70	26	CF	... ..	14.40
				30	G	4 33 21.09	16.10
						4 33 21.09	171 53 15.53
γ Doradus.				B.A.C. 1454 S.P.			
Jan. 13	CF	4 12 25	141 50 10.82	Aug. 24	G	... ..	171 53 17.81
ν Tauri.				25	G	... ..	17.49
Feb. 8	G	4 18 3.22	67 30 9.70	26	G	... ..	20.23
ε Tauri.				30	G	4 33 20.95	17.48
Sept. 13	CF	... ..	71 7 44.29	31	G	21.43	16.75
14	G	... ..	44.80			4 33 21.19	171 53 17.95
Nov. 7	CF	... ..	42.35	τ Tauri.			
Dec. 4	CF	... ..	43.00	Jan. 11	G	4 33 58.01	67 18 41.50
5	G	... ..	43.89	12	W	58.07	38.56
		4 20 34	71 7 43.67	Nov. 7	CF	57.99	40.95
α Tauri.						4 33 58.02	67 18 40.34
Jan. 11	G	... ..	73 46 18.80	β Cæli.			
12	W	... ..	16.52	Jan. 13	CF	... ..	127 24 58.66
Feb. 8	G	... ..	17.93	20	CF	... ..	59.03
Mar. 20	T	4 28 0.29	...			4 37 11	127 24 58.85
July 6	T	... ..	17.73	B.A.C. 1483.			
7	G	... ..	16.89	Jan. 31	CF	4 41 15.61	129 36 27.65
8	T	... ..	15.58				
Sept. 13	CF	... ..	16.50				
14	G	... ..	19.63				
Nov. 7	CF	... ..	17.59				
Dec. 30	T	... ..	18.20				
		4 28 0.29	73 46 17.54				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Tauri.				κ Tauri.			
Feb. 8	G	^h 4 ^m 54 ^s 50.94	68° 36' 37".25	Dec. 5	G	^h 5 ^m 10 ^s 59.24	68° 2' 58".75
9	W	50.98	37.04	6	CF	59.32	58.72
Sept. 14	G	51.22	39.25			5 10 59.28	68 2 58.74
		4 54 51.05	68 36 37.85	\circ Columbæ.			
ϵ Leporis.				Jan. 20	CF	...	125 1 56.70
Jan. 29	CF	..	112 33 32.00	29	CF	5 12 30.60	53.96
31	CF	...	33.00			5 12 30.60	125 1 55.33
		4 59 37	112 33 32.50	θ Doradûs.			
η^2 Pictoris.				Jan. 27	CF	5 13 52.08	157 20 27.21
Jan. 20	CF	5 1 24	139 46 13.00	β Tauri.			
β Orionis.				Jan. 12	W	...	61 30 44.14
Jan. 13	G	...	98 21 50.02	13	G	...	45.74
15	CF	...	49.78	24	CF	5 17 34.23	47.06
17	CF	...	51.40	Feb. 8	G	...	48.99
22	CF	5 7 54.44	51.33	9	W	...	45.87
27	CF	54.43	49.45	Dec. 5	G	...	45.36
31	CF	...	49.26	6	CF	...	45.43
Mar. 20	T	54.43	...			5 17 34.23	61 30 46.08
30	T	54.38	...	κ Pictoris.			
July 6	T	...	49.94	Jan. 31	CF	5 19 49.83	146 15 53.72
7	G	...	50.19	θ Pictoris (1st Star).			
8	T	...	49.02	Feb. 6	CF	5 21 34.93	142 25 51.96
17	G	54.45	49.94				
18	CF	...	47.73				
Aug. 30	G	...	50.97				
Sept. 14	G	...	51.08				
		5 7 54.43	98 21 50.01				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
θ Pictoris (2nd Star).				ϵ Orionis—continued.			
Jan. 15	CF	^h 5 ^m 21 ^s 38.19	142° 26' 16".45	July 24	G	^h ... ^m ... ^s ...	91° 17' 34".01
17	CF	38.45	16.22	Sept. 16	G	...	35.72
		5 21 38.32	142 26 16.34			5 29 12.73	91 17 35.04
δ Orionis.				ζ Tauri.			
Mar. 20	T	5 24 57.55	...	Jan. 12	W	5 29 24.09	68 56 42.48
30	T	57.52	...	13	G	24.06	43.52
July 7	G	...	90 24 14.96			5 29 24.08	68 56 43.00
16	G	...	16.90	α Columbæ.			
17	G	57.41	15.43	Jan. 22	CF	5 34 39.19	124 8 58.19
18	CF	...	13.97	Feb. 6	CF	...	58.77
21	G	57.40	16.34	12	CF	...	58.14
Sept. 16	G	...	14.82	Mar. 20	T	39.13	...
		5 24 57.47	90 24 15.40	30	T	39.15	...
B.A.O. 1756.				July 7	T	...	57.75
Jan. 29	CF	5 28 12.71	128 36 40.95	8	G	...	58.35
31	CF	12.54	40.41	17	G	39.14	57.20
Feb. 12	CF	12.78	40.73	18	CF	...	59.40
		5 28 12.68	128 36 40.70	21	G	39.17	58.84
ϵ Orionis.				23	CF	...	58.28
Mar. 30	T	5 29 12.74	...	24	G	...	58.46
July 6	G	...	91 17 34.34	25	CF	...	57.54
7	T	...	33.86	Sept. 16	G	...	57.76
8	G	...	35.67			5 34 39.16	124 8 58.22
11	G	...	35.18	γ Mensæ.			
16	G	...	35.00	Jan. 17	CF	...	166 26 12.71
17	G	12.70	34.52	20	CF	...	14.11
21	G	12.76	34.90	27	CF	5 37 21.90	13.93
23	CF	...	37.15	29	CF	21.92	14.15
						5 37 21.91	166 26 13.73

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
μ Columbae.				α Orionis—continued.			
Jan. 15	CF	^h 5 ^m 40 ^s 52.02	122° 21' 39".75	July 8	G	^h ... ^m ... ^s ...	82° 37' 18".04
				17	G	5 47 42.09	18.80
				18	CF	...	18.37
				21	G	42.06	18.45
				23	CF	...	17.24
				24	G	...	17.69
				25	CF	...	16.71
				Nov. 9	G	...	16.78
						5 47 42.07	82 37 17.92
B.A.C. 1855.				B.A.C. 1890.			
Jan. 22	CF	5 42 37.91	136 38 58.71	Jan. 31	CF	5 48 46.04	142 8 30.35
24	CF	38.23	57.72				
Feb. 4	CF	38.09	57.24				
		5 42 38.08	136 38 57.89				
β Pictoris.				ϵ Doradus.			
Feb. 12	CF	5 44 0.98	141 7 4.06	Jan. 17	CF	5 50 1.87	156 56 7.57
				Feb. 12	CF	2.29	8.47
						5 50 2.08	156 56 8.02
δ Doradus.				B.A.C. 1933.			
Feb. 6	CF	5 44 31.96	155 47 14.34	Jan. 22	CF	5 54 55.30	132 49 28.21
				24	CF	55.48	28.25
						5 54 55.39	132 49 28.23
χ^1 Orionis.				ν Orionis.			
Oct. 13	CF	5 46 12.68	69 45 9.22	Jan. 27	CF	5 59 41.60	75 13 7.36
Dec. 6	CF	12.79	9.68	31	CF	...	6.52
		5 46 12.74	69 45 9.45	Feb. 4	CF	...	8.37
						5 59 41.60	75 13 7.42
α Orionis.							
Jan. 27	CF	5 47 42.06	82 37 18.88				
Mar. 20	T	42.02	...				
30	T	42.12	...				
July 6	G	...	18.00				
7	T	...	18.11				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Geminorum.				α Argûs—continued.			
Jan. 13	G	6 ^h 6 ^m 32 ^s ·98	67° 27' 22 ^{''} ·84	July 7	T	6 ^h 20 ^m 53 ^s ·47	142° 37' 16 ^{''} ·79
14	W	32·83	24·30	8	G	53·34	15·89
Feb. 9	W	32·87	23·74	17	G	53·35	16·61
Nov. 9	G	...	24·98	18	CF	53·21	16·04
Dec. 6	CF	32·85	24·43	21	G	53·28	16·39
7	W	32·98	23·99	23	CF	53·34	16·92
		6 6 32·90	67 27 24·05	24	G	53·26	16·17
				25	CF	53·16	15·98
						6 20 53·31	142 37 16·43
μ Geminorum.				ζ Puppis.			
Jan. 13	G	...	67 25 8·29	Jan. 15	CF	6 26 25·54	140 8 33·59
14	W	...	9·21	17	CF	25·27	35·00
15	CF	...	8·36			6 26 25·41	140 8 34·30
17	CF	...	7·51				
20	CF	...	8·29				
22	CF	6 14 36·68	11·13				
24	CF	36·70	...				
27	CF	36·61	8·22				
31	CF	...	8·49				
Feb. 9	W	...	8·58				
10	G	...	10·80				
12	CF	...	9·69				
Mar. 10	W	...	6·68				
Oct. 13	CF	...	7·47				
Nov. 9	G	...	7·58				
Dec. 8	CF	...	9·04				
		6 14 36·66	67 25 8·62				
α Argûs.				γ Geminorum.			
Jan. 24	CF	6 20 53·29	142 37 16·20	Jan. 22	CF	6 29 44·35	73 29 10·62
Feb. 4	CF	53·33	17·26	24	CF	44·31	11·11
May 9	CF	53·41	...	27	CF	44·45	12·12
				Feb. 6	CF	...	10·03
				Mar. 10	W	...	11·83
				Oct. 13	CF	...	10·81
				Dec. 8	CF	...	11·49
						6 29 44·37	73 29 11·14
α Canis Majoris.							
Jan. 15	CF	6 39 3·83	106 31 45·57				
20	CF	...	45·58				
22	CF	3·96	46·90				
29	CF	3·85	44·23				
31	CF	3·95	45·50				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Canis Majoris—continued.</i>				<i>β Carinæ.</i>			
Feb. 4	CF	6 ^h 39 ^m 3 ^s ·89	106° 31' 44"·10	Jan. 17	CF	6 ^h 46 ^m 51 ^s ·31	143° 27' 41"·15
6	CF	4·01	46·51	27	CF	51·51	44·33
May 9	CF	3·95	...	31	CF	51·64	43·89
10	CF	4·04	...			6 46 51·49	143 27 43·12
20	CF	4·01	...	<i>ε Canis Majoris.</i>			
June 29	T	3·89	...	Jan. 15	G	6 53 12·05	118 47 10·67
July 1	G	3·93	...	29	CF	12·09	10·44
6	G	3·90	45·97	Feb. 4	G	12·12	10·21
7	T	3·93	45·35	6	CF	12·21	10·23
8	G	3·86	46·18	July 21	G	12·13	10·79
11	G	...	45·58	23	CF	...	10·95
13	G	...	45·38	24	G	...	10·56
16	G	3·89	45·49	25	CF	...	8·91
17	G	3·93	44·66	Aug. 10	G	...	11·73
18	CF	3·89	45·01	11	CF	...	10·40
21	G	3·91	44·81	13	G	...	10·98
23	CF	3·89	45·22	15	G	...	11·40
24	G	3·88	44·93			6 53 12·12	118 47 10·61
25	CF	3·79	45·34	<i>ζ Geminorum.</i>			
30	G	3·89	...	Feb. 10	G	...	69 13 52·24
Aug. 10	G	...	45·25	11	W	...	51·00
11	CF	...	44·22	Apr. 7	G	...	49·92
		6 39 3·91	106 31 45·32	Dec. 7	W	6 55 55·30	50·21
<i>B.A.C. 2252.</i>				8	CF	55·36	49·73
Jan. 13	CF	6 45 51	124 12 20·43			6 55 55·33	69 13 50·62
<i>α Pictoris.</i>							
Jan. 20	CF	...	151 47 36·40				
22	CF	6 46 46·31	35·90				
24	CF	46·41	36·15				
		6 46 46·36	151 47 36·15				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Canis Majoris.				λ Geminorum.			
Jan. 17	CF	^h ^m ^s ...	105° 25' 52.09	Feb. 10	G	^h ^m ^s ...	73° 12' 50.16
24	CF	6 57 31.02	52.48	11	W	...	50.64
Feb. 12	CF	...	54.68			7 10 10	73 12 50.40
		6 57 31.02	105 25 53.08	δ Geminorum.			
25 Canis Majoris.				Jan. 14	W	...	67 45 61.91
Jan. 13	CF	...	116 10 34.92	15	CF	...	60.80
29	CF	7 2 46.71	34.49	29	CF	...	60.89
		7 2 46.71	116 10 34.71	Mar. 11	G	...	63.24
A Puppis.				Apr. 7	G	...	59.71
Jan. 20	CF	...	129 26 7.54			7 11 53	67 46 1.31
27	CF	7 4 13.11	10.28	π Argus.			
31	CF	13.14	8.84	Jan. 27	CF	7 12 16.19	126 51 5.17
Feb. 12	CF	13.10	9.90	31	CF	16.22	4.51
		7 4 13.13	129 26 9.14			7 12 16.21	126 51 4.84
E Puppis.				F Puppis.			
Jan. 17	CF	7 7 41.66	130 16 0.74	Jan. 20	CF	7 13 51	128 57 36.41
24	CF	41.70	1.20	δ Volantis.			
		7 7 41.68	130 16 0.97	Jan. 17	CF	7 16 52.91	157 42 16.03
I Puppis.				Feb. 6	CF	53.57	14.54
Feb. 4	CF	7 8 37.70	136 31 50.29			7 16 53.24	157 42 15.29
27 Canis Majoris.				ϵ Geminorum.			
Jan. 22	CF	7 8 37.79	116 7 1.06	Jan. 14	W	7 17 9.14	61 55 53.15
Feb. 6	CF	37.66	3.61				
		7 8 37.73	116 7 2.34				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
31 Canis Majoris.				α Canis Minoris.			
Jan 22	CF	$7^{\text{h}} 18^{\text{m}} 38^{\text{s}}.44$	$119^{\circ} 2' 9''.11$	Jan. 13	CF	$7^{\text{h}} 32^{\text{m}} 4^{\text{s}}$	$84^{\circ} 25' 25''.13$
B.A.C. 2478.				15	G	...	28.30
Jan. 24	CF	$7 23 45.28$	$121 10 23.32$	17	CF	$7 32 4.24$	27.06
31	CF	45.45	21.08	22	CF	4.61	(32.21)
		$7 23 45.37$	$121 10 22.20$	24	CF	4.66	26.65
σ Argûs.				27	CF	4.54	...
Jan. 27	CF	$7 24 51.25$	$133 1 26.29$	31	CF	4.57	26.01
29	CF	51.16	25.77	Feb. 4	CF	4.61	28.96
Feb. 4	CF	51.35	25.24	12	G	...	28.89
		$7 24 51.25$	$133 1 25.77$	Apr. 7	G	...	28.26
B.A.C. 2484.				May 20	CF	4.69	...
Jan. 22	CF	$7 25 20.68$	$120 40 29.06$	June 4	CF	4.77	...
68 Geminorum.				5	CF	4.71	...
Dec. 8	CF	$7 25 43.89$	$73 52 45.63$	July 30	G	4.65	...
ν Geminorum.				Aug. 10	G	...	27.77
Feb. 11	W	...	$62 48 4.08$	11	CF	...	26.68
12	CF	$7 27 24.85$	4.06	13	G	...	27.15
		$7 27 24.85$	$62 48 4.07$	18	CF	...	28.53
γ Puppis.				19	G	...	27.17
Feb. 6	CF	$7 28 47.90$	$115 50 1.76$	21	G	...	27.51
				22	CF	...	27.51
						$7 32 4.61$	$84 25 27.44$
				κ Geminorum			
				Feb. 11	W	...	$65 16 28.23$
				12	G	...	28.54
				Mar. 11	G	$7 36 6.62$	27.17
				Apr. 7	G	...	27.36
				8	W	...	26.38
						$7 36 6.62$	$65 16 27.54$
				β Geminorum.			
				Jan. 29	CF	$7 36 52$	$61 38 36.40$

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>g</i> Geminorum.				6 Cancri.			
Dec. 8	CF	^h 7 ^m 38 ^s 8.00	71° 9' 22.05	Feb. 6	CF	^h 7 ^m 55 ^s 2	61° 49' 20.65
W Puppis.				ζ Argūs.			
Feb. 4	CF	7 38 59.80	130 35 51.88	Jan. 17	CF	7 58 43.99	129 37 2.05
6	CF	60.12	52.87	μ Cancri.			
		7 38 59.96	130 35 52.38	Jan. 15	G	...	68 1 14.00
c Puppis.				16	W	..	13.34
Jan. 24	CF	7 40 20.30	127 38 6.27	Apr. 7	G	...	12.08
ξ Argūs.				8	W	...	12.44
Jan. 17	CF	7 43 29.37	114 30 54.30			7 59 38	68 1 12.97
9 Puppis.				15 Argūs.			
Jan. 29	CF	7 45 23.01	103 32 3.44	Jan. 22	CF	8 1 39.99	113 54 33.16
B.A.C. 2642.				24	CF	39.99	29.67
Jan. 24	CF	7 49 10.42	139 15 19.37	Feb. 12	G	...	31.71
B.A.C. 2655.				Mar. 11	G	...	32.15
Jan. 22	CF	7 52 10.03	119 57 54.74			8 1 39.99	113 54 31.67
B.A.C. 2670.				ζ Cancri.			
Jan. 29	CF	7 54 16.45	138 52 19.80	Jan. 15	G	...	71 56 19.61
				16	W	...	19.24
						8 4 18	71 56 19.43
				γ Argūs.			
				Jan. 29	CF	8 5 16.73	136 55 47.09
				June 4	CF	16.71	44.80
						8 5 16.72	136 55 45.95

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Argûs.				δ Cancri.			
Jan. 17	CF	^{h m s} 8 19 40.43	^{° ' "} 149 3 57.14	Apr. 8	W	^{h m s} ...	^{° ' "} 71 20 26.13
22	CF	40.49	58.16	9	G	8 36 50.33	26.26
June 4	CF	41.09	58.84	Dec. 10	CF	50.38	26.50
		8 19 40.67	149 3 58.05			8 36 50.36	71 20 26.30
θ Chamæleontis.				ϵ Hydræ.			
Jan. 24	CF	8 24 42.66	167 2 15.30	Jan. 15	G	...	83 4 38.78
				17	CF	...	38.69
η Cancri.				Mar. 18	T	8 39 28.00	...
Jan. 29	CF	...	69 5 33.20			8 39 28.00	83 4 38.74
Mar. 12	W	...	32.85	α Cancri.			
18	T	8 24 43.46	...	Jan. 16	W	...	77 36 36.36
Dec. 10	CF	...	32.12	17	CF	8 50 56.03	40.06
		8 24 43.46	69 5 32.72	Mar. 12	W	56.45	37.72
δ Mali.				13	G	56.20	36.18
Jan. 24	CF	8 34 42.10	124 49 11.90	Apr. 8	W	...	35.78
				9	G	56.34	35.99
γ Cancri.						8 50 56.26	77 36 37.02
Mar. 11	G	8 35 17.85	68 2 18.54	σ Velorum.			
12	W	17.79	14.98	Jan. 24	CF	8 59 23.83	136 32 59.47
		8 35 17.82	68 2 16.76	α Volantis.			
δ Velorum.				Jan. 22	CF	9 0 15.53	155 50 47.04
Jan. 22	CF	8 36 2.88	136 9 32.86				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
κ Canori.				ω Leonis.			
Jan. 16	W	^h ^m ^s ...	78° 46' 42".90	Dec. 10	CF	^h ^m ^s 9 21 3".99	80° 20' 38".37
17	CF	9 0 16.31	42.50	11	G	...	38.56
Mar. 12	W	16.29	...			9 21 3.99	80 20 38.47
13	G	16.12	43.32				
		9 0 16.24	78 46 42.91				
δ_3 Cancri.				ψ Argûs.			
Jan. 24	CF	9 11 16.52	71 42 40.32	Jan. 24	CF	9 25 16.11	129 51 48.47
Mar. 12	W	...	40.31				
		9 11 16.52	71 42 40.32				
β Argûs.				ι Sextantis..			
Sept. 24	G	9 11 40	159 8 56.64	Dec. 10	CF	9 29 55.39	82 32 50.49
β Argûs S.P.				m Carinæ.			
Oct. 3	G	9 11 39.74	159 8 56.32	Jan. 24	CF	9 35 31.73	150 42 15.74
α Hydræ.				ϵ Leonis.			
Jan. 17	G	...	98 3 47.47	Mar. 18	T	9 38 0.67	65 36
Mar. 13	G	...	44.43				
18	T	9 20 48.36	...	B.A.C. 3336.			
Aug. 25	G	...	42.31	Feb. 14	G	9 38 53	82 39 21.78
Sept. 1	G	...	42.18				
11	G	...	43.98	ι_8 Leonis.			
18	G	...	43.75	Apr. 9	G	9 38 57.17	77 33 20.55
		9 20 48.36	98 3 44.02	10	W	57.09	20.96
						9 38 57.13	77 33 20.76

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
π Leonis.				α Antliae.			
Jan. 24	CF	^h 9 ^m 52 ^s 55.13	81° 17' 42".46	Mar. 21	CF	^h 10 ^m 20 ^s 50	120° 21' 58".08
Feb. 14	G	...	42.10	30 Sextantis.			
Mar. 13	G	...	42.70				
14	W	...	40.82	Feb. 14			
18	T	55.14	...				
Apr. 9	G	...	41.38	G			
10	W	...	41.08				
May 8	G	...	41.60	ρ Leonis.			
		9 52 55.14	81 17 41.73				
Λ Leonis.				Mar. 20	T	10 25 32.46	...
May 8				Apr. 10	W	...	79 59 3.09
						10 25 32.46	79 59 3.09
α Leonis.				ϵ^2 Carinae.			
Jan. 17		...	77 21 35.58	Mar. 21	CF	10 33 30	148 27 55.80
24		10 1 1.13	32.16	33 Sextantis.			
Mar. 13		...	34.79				
14		...	33.24	Feb. 14			
18		1.18	...				
Apr. 8		...	33.72	15	G	...	91 1 2.50
9		...	34.29		W	10 34 23.06	0.53
Sept. 18		...	34.97			10 34 23.06	91 1 1.52
23		...	34.66	34 Sextantis.			
		10 1 1.16	77 21 34.18				
γ^1 Leonis.				Apr. 10	W	10 35 29.83	85 41 48.13
Feb. 14	G	...	69 27 42.69	η Argus.			
May 8	G	10 12 21.77	...				
		10 12 21.77	69 27 42.69	Mar. 21	CF	10 39 43	148 57 37.34

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>ι</i> Leonis.				<i>φ</i> Leonis.			
Mar. 20	T	^h 10 ^m 42 ^s 0.07	78° 43' 31".39	Feb. 15	W	^h 11 ^m 9 ^s 38.72	92° 53' 51".34
Apr. 10	W	...	30.73	16	G	38.79	51.53
May 8	G	...	30.67	Mar. 14	W	38.90	52.39
		10 42 0.07	78 43 30.93	15	G	...	51.00
<i>55</i> Leonis.				Apr. 12	W	38.88	50.76
June 4	G	10 48 36.53	88 31 40.36	May 8	G	38.87	50.64
5	W	36.45	39.34	9	W	38.76	50.73
		10 48 36.49	88 31 39.85			11 9 38.82	92 53 51.20
<i>δ</i> Leonis.				<i>δ</i> Crateris.			
June 4	G	10 53 26.16	85 38 31.23	May 28	G	...	104 1 55.63
5	W	26.13	30.11	29	G	...	54.53
		10 53 26.15	85 38 30.67	30	G	...	55.27
<i>ρ</i> ¹ Leonis.				31	G	...	55.11
Jan. 19	G	...	91 44 33.90	June 1	G	...	53.37
Mar. 14	W	10 54 47.29	32.30	2	G	...	54.60
May 8	G	47.33	33.17	3	G	...	55.31
9	W	47.24	32.53	4	G	...	55.16
		10 54 47.29	91 44 32.98	5	W	...	54.81
<i>χ</i> Leonis.				6	G	...	56.04
May 8	G	10 57 54	81 55 5.29			11 12 27	104 1 54.98
<i>ν</i> Leonis.				<i>ν</i> Leonis.			
Jan. 19	G	...	90 3 44.07	Jan. 19	G	...	90 3 44.07
Feb. 15	W	...	41.95	Feb. 15	W	...	41.95
16	G	...	43.87	16	G	...	43.87
Apr. 12	W	...	42.73	Apr. 12	W	...	42.73
June 5	W	...	42.58	June 5	W	...	42.58
6	G	...	44.17	6	G	...	44.17
		11 29 53	90 3 43.23			11 29 53	90 3 43.23

Data.	Observer.	R.A.	N.P.D.	Data.	Observer.	R.A.	N.P.D.
β Virginia.				β Corvi.			
Jan. 19	G	^{h m s} 11 43 31	87° 27' 28" 31	Jan. 21	G	^{h m s}	112° 37' 57" 92
B.A.C. 4006.				23	G	...	57° 92
May 9	W	11 43 59·01	94 33 56·58	24	G	...	58° 97
ι Virginis.				27	G	...	57° 98
May 9	W	12 2 37·05	87 19 37·76	28	G	...	59° 01
10	G	36·75	37·42	29	G	...	59° 32
		12 2 36·90	87 19 37·59	Feb. 11	CF	...	60° 35
ε Corvi.				May 1	G	...	58° 45
Feb. 16	G	...	111 51 6·58	12	G	...	58° 59
June 6	G	...	8·29	Sept. 24	G	...	57° 71
		12 3 2	111 51 7·44			12 27 8	112 37 58·62
η Virginis.				χ Virginis.			
Feb. 16	G	...	89 53 57·67	Jan. 21	G	12 32 7·65	97 14 5·75
June 6	G	...	58° 95	Apr. 12	W	7·76	6·42
July 4	G	...	58·68	13	G	...	6·28
		12 12 51	89 53 58·43	May 10	G	7·46	7·22
ζ Virginis.				11	W	7·59	6·34
Feb. 16	G	...	89 53 57·67	June 6	G	7·54	7·55
June 6	G	...	58° 95			12 32 7·60	97 14 6·59
July 4	G	...	58·68	γ^1 Virginis.			
		12 12 51	89 53 58·43	Feb. 16	G	12 34 40·10	90 41 28·60
θ Virginis.				ψ Virginis.			
Apr. 12	W	12 26 39·60	98 41 23·82	Jan. 21	G	12 47 10·79	98 47 18·04
June 6	G	39·55	24·81	May 10	G	10·61	16·98
		12 26 39·58	98 41 24·32	11	W	10·76	17·52
				July 4	G	...	18·70
				5	W	10·72	...
						12 47 10·72	98 47 17·81

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
θ Virginis.				86 Virginis.			
May 10	G	^{h m s} 13 2 48	98° 48' 3' 39	May 11	W	^{h m s} 13 38 35' 30	101° 43' 59' 94
53 Virginis.				89 Virginis.			
Apr. 13	G	...	105 27 9' 64	July 5 6	W	13 42 22' 76	107 26 41' 59
14	W	13 4 43' 31	10' 06		G	22' 82	43' 18
July 4	G	...	10' 52			13 42 22' 79	107 26 42' 39
5	W	43' 29	10' 68	τ Virginis.			
		13 4 43' 30	105 27 10' 23	July 5	W	13 54 37	87 47 8' 71
η Muscæ.				B.A.C. 4700.			
Feb. 11	CF	13 5 57	157 9 44' 62	July 5	W	...	105 38 52' 61
α Virginis.				6	G	14 3 18' 42	53' 74
Jan. 21	G	...	100 26 22' 05			14 3 18' 42	105 38 53' 18
22	W	...	22' 78	κ Virginis.			
23	G	...	23' 14	May 11	W	14 5 32' 30	99 37 45' 14
Apr. 13	G	...	23' 22	12	G	32' 40	45' 70
14	W	...	23' 71			14 5 32' 35	99 37 45' 42
May 10	G	...	23' 10	5 Libræ.			
11	W	...	21' 88	Aug. 3	G	14 38 21' 58	104 52 31' 38
July 4	G	...	23' 04	μ Libræ.			
Aug. 18	G	...	21' 74	Apr. 14	W	14 41 45' 53	103 34
30	G	...	22' 49				
Sept. 19	CF	...	22' 53				
		13 17 56	100 26 22' 70				
λ Virginis.							
Jan. 21	G	13 25 42' 13	99 27 8' 84				
22	W	42' 29	9' 65				
		13 25 42' 21	99 27 9' 25				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^3 Libræ.				β Libræ—continued.			
Jan. 22	W	^{h m s} ...	105° 27' 57.04	May 12	G	^{h m s} ...	98° 52' 14.13
May 12	G	...	57.27	July 6	G	...	15.25
July 6	G	...	57.55	Aug. 3	G	...	16.62
Aug. 3	G	...	57.09			15 9 35	98 52 16.69
		14 43 15	105 27 57.24	ζ Libræ.			
γ Scorpil 1 Hev.				Aug. 3	G	15 20 28.74	106 13 56.11
Mar. 18	W	14 56 0.05	...	Scorpil 3 Hev.			
July 6	G	0.01	114 44 12.61	Aug. 3	G	15 28 39.25	117 40 29.76
7	W	0.07	12.35	δ^1 Scorpil.			
		14 56 0.04	114 44 12.48	July 7	W	15 52 10.85	112 13 32.36
ϵ^1 Libræ.				8	G	10.66	31.97
Mar. 18	W	15 4 21.80	109 15 58.66			15 52 10.76	112 13 32.17
19	W	21.61	59.40	β^1 Scorpil.			
May 12	G	21.72	59.46	Mar. 20	W	...	109 25 27.18
July 6	G	21.76	61.21	July 7	W	...	27.02
7	W	21.65	59.49	8	G	...	28.40
		15 4 21.71	109 15 59.64			15 57 25	109 25 27.53
β Libræ.				δ Ophiuchi.			
Feb. 26	G	...	98 52 17.18	Feb. 27	G	...	93 20 10.83
27	G	...	16.97	28	G	...	10.18
28	G	...	17.19	Mar. 1	G	...	10.40
Mar. 1	G	...	16.90	5	G	...	10.15
5	G	...	17.76	6	G	...	9.64
6	G	...	16.09				
30	G	...	18.94				
Apr. 2	G	...	16.53				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Ophiuchi—continued.				α Scorpii.			
Mar. 11	G	^h ^m ^s ...	93° 20' 10.45	Jan. 5	G	^h ^m ^s ...	116° 7' 20.45
12	G	...	10.61	7	G	...	19.99
13	G	...	8.80	Mar. 5	G	...	20.81
30	G	...	12.12	6	G	...	20.09
Apr. 2	G	...	9.84	11	G	...	20.80
3	G	...	9.61	12	G	...	19.66
8	G	...	9.83	13	G	...	20.08
10	G	...	10.45	30	G	...	18.87
July 8	G	...	8.24	Apr. 2	G	...	19.65
		16 7 7	93 20 10.08	3	G	...	19.48
B.A.C. 5412.				8	G	...	19.67
Aug. 23	G	...	176 5 10.35	Aug. 24	G	...	19.36
25	G	...	10.81	25	G	...	18.36
30	G	16 10 21.26	10.17	26	G	...	19.42
31	G	22.11	10.79	30	G	...	20.17
		16 10 21.69	176 5 10.53	31	G	...	18.72
B.A.C. 5412 S.P.				Dec. 15	G	...	18.50
Aug. 23	G	...	176 5 12.36	17	G	...	20.24
25	G	...	12.58	18	G	...	18.92
26	CF	...	13.72	21	G	...	18.84
30	G	16 10 21.45	12.47	22	G	...	18.50
		16 10 21.45	176 5 12.78	23	G	...	17.38
σ Scorpii.				29	T	...	18.20
Mar. 19	W	16 12 48.44	115 15 28.91	A Ophiuchi (1st Star).			
20	W	48.35	28.76	Mar. 20	W	17 6 51.88	116 23 46.09
May 13	W	48.33	...	21	W	51.83	46.38
		16 12 48.37	115 15 28.84			17 6 51.86	116 23 46.24

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
θ Ophiuchi.				μ Sagittarii.			
Mar. 20	W	^h ^m ^s ...	114° 51' 27".69	Mar. 27	G	^h ^m ^s ...	111° 5' 27".61
21	W	...	27".73	May 15	W	...	26".48
June 12	G	...	27".24	June 12	G	...	28".70
July 8	G	...	28".26	July 9	W	...	26".89
9	W	...	27".41	Sept. 2	G	...	27".49
		17 13 32	114 51 27.67	18	G	...	27".55
				19	G	...	28".53
δ Ophiuchi.						18 5 31	111 5 27.61
May 15	W	...	119 44 16.10	δ Sagittarii.			
July 8	G	17 18 32.81	15".22	Mar. 21	W	18 12 9.56	119 52 56.22
Aug. 6	W	32".72	16".60	22	W	...	56".26
Sept. 2	G	32".70	15".71	May 15	W	...	56".25
		17 18 32.74	119 44 15.91	16	G	9.55	...
α Ophiuchi.						18 12 9.56	119 52 56.24
June 12	G	...	77 20 12.59	λ Sagittarii.			
Sept. 2	G	...	10".01	Mar. 21	W	18 19 27.25	115 29 37.99
		17 28 32	77 20 11.30	22	W	...	37".26
σ Octantis.				May 15	W	...	37".97
Mar. 27	G	...	179 16 39.76	16	G	27".27	37".58
Sept. 18	G	...	42".09	July 9	W	27".25	37".35
19	G	...	42".51	10	G	27".13	38".66
		17 51 46	179 16 41.45	Sept. 2	G	27".26	37".96
γ Sagittarii.				3	CF	27".34	38".99
Aug. 6	W	17 56 12.39	119 35			18 19 27.25	115 29 37.97
ϕ Sagittarii.				ϕ Sagittarii.			
				June 12	G	18 37 1.96	117 7 42.27

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
σ Sagittarii.				δ Aquilæ.			
June 12	G	18 ^h 46 ^m 42 ^s 37	116° 27' 51 ^s 75	May 16	G	... ^{h m s}	87° 9' 25 ^s 78
				July 10	G	...	26 ^s 60
						19 18 32	87 9 26 ^s 19
ξ^2 Sagittar				λ^2 Sagittarii.			
Mar. 22	W	...	111 17 3 ^s 07	Apr. 19	G	...	115 11 5 ^s 34
Aug. 6	W	18 49 29 ^s 69	3 ^s 13	May 17	W	...	4 ^s 13
		18 49 29 ^s 69	111 17 3 ^s 10	Aug. 6	W	...	4 ^s 40
						19 28 18	115 11 4 ^s 62
				f Sagittarii.			
Mar. 22	W	...	111 14 20 ^s 84	Apr. 19	G	19 38 18 ^s 59	110 5 22 ^s 69
May 16	G	19 1 33 ^s 38	20 ^s 98	20	W	18 ^s 51	...
17	W	33 ^s 07	20 ^s 81			19 38 18 ^s 55	110 5 22 ^s 69
July 10	G	33 ^s 23	21 ^s 50	γ Aquilæ.			
Aug. 6	W	33 ^s 34	21 ^s 05	July 10	G	19 39 42	79 43 13 ^s 04
Sept. 3	CF	33 ^s 32	21 ^s 60	α Aquilæ.			
4	G	...	21 ^s 72	Jan. 3	CF	...	81 29 36 ^s 82
Oct. 1	G	...	22 ^s 43	Apr. 19	G	...	36 ^s 35
		19 1 33 ^s 27	111 14 21 ^s 37	May 16	G	...	35 ^s 46
ρ Sagittarii.				Oct. 28	G	...	36 ^s 24
May 16	G	19 13 40 ^s 05	108 6 12 ^s 45	Dec. 15	CF	...	35 ^s 84
17	W	40 ^s 12	12 ^s 08	17	CF	...	34 ^s 52
July 10	G	39 ^s 99	11 ^s 80	19	CF	...	35 ^s 81
Sept. 3	CF	40 ^s 04	12 ^s 40	22	CF	...	35 ^s 40
4	G	...	12 ^s 14			19 44 3	81 29 35 ^s 81
		19 13 40 ^s 05	108 6 12 ^s 17				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^1 Capricorni.				θ Capricorni.			
Sept. 4	G	$20^{\text{h}} 10^{\text{m}} 0^{\text{s}}$	$102^{\circ} 55' 54''.39$	May 18	G	$20^{\text{h}} 58^{\text{m}} 11^{\text{s}}.12$	$107^{\circ} 46' 42''.89$
α^2 Capricorni.				ν Aquarii.			
July 12	G	...	$102^{\circ} 58' 10''.01$	July 12	G	$21^{\text{h}} 2^{\text{m}} 4''.47$	$101^{\circ} 55' 40''.51$
Oct. 2	CF	...	$8''.36$	Oct. 2	CF	$4''.51$	$41''.08$
		$20 10 24$	$102^{\circ} 58' 9''.19$	3	G	$4''.62$	$40''.38$
α Pavonia.						$21^{\text{h}} 2^{\text{m}} 4''.53$	$101^{\circ} 55' 40''.66$
Jan. 11	CF	$20 14 43$	$147^{\circ} 10' 22''.44$	ι Capricorni.			
ρ Capricorni.				May 18	G	$21^{\text{h}} 14^{\text{m}} 33''.46$	$107^{\circ} 25' 12''.00$
May 17	W	...	$108^{\circ} 15' 60''.28$	β Aquarii.			
18	G	...	$60''.77$	Apr. 3	T	...	$96^{\circ} 10' 34''.94$
July 12	G	...	$62''.30$	21	G	...	$33''.63$
Sept. 4	G	...	$60''.42$	May 18	G	...	$34''.30$
Oct. 2	CF	...	$59''.56$	July 12	G	...	$32''.05$
		$20 20 59$	$108^{\circ} 16' 0''.67$	Aug. 22	G	...	$34''.56$
τ Capricorni.				23	CF	...	$33''.35$
May 17	W	$20 31 33''.17$	$105^{\circ} 26' 8''.69$	24	G	...	$34''.65$
18	G	$33''.14$	$9''.24$	25	CF	...	$32''.45$
July 12	G	$33''.14$	$9''.44$	29	CF	...	$34''.73$
		$20 31 33''.15$	$105^{\circ} 26' 9''.12$	30	G	...	$32''.26$
ϵ Aquarii.				Sept. 2	G	...	$34''.39$
Apr. 20	W	$20 40 12''.26$	...	3	CF	...	$30''.33$
Oct. 2	CF	$12''.06$	$99^{\circ} 59' 53''.11$	4	G	...	$34''.56$
3	G	$12''.26$	$54''.05$	8	G	...	$34''.28$
		$20 40 12''.19$	$99^{\circ} 59' 53''.58$	9	CF	...	$31''.99$
				30	G	...	$32''.26$
				Oct. 2	CF	...	$35''.40$
				18	G	...	$34''.19$
						$21 24 17$	$96^{\circ} 10' 33''.57$

Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
ξ Aquarii.				α Gruis.			
July 12	G	21 ^h 30 ^m 24 ^s 17	98° 28' 15".90	Jan. 3	CF	137° 37' 38".86	
ε Pegasi.				4	CF	38.15	
Apr. 3	T	...	80 45 21.61	7	CF	37.37	
Oct. 3	G	...	21.33	Apr. 2	T	21 59 31.24	...
		21 37 24	80 45 21.47	3	T	31.14	40.27
ο Aquarii.				8	T	...	37.71
Oct. 3	G	21 56 10.67	92 49 12.66			21 59 31.19	137 37 38.47
α Aquarii.				C Octantis.			
Aug. 22	G	...	90 59 18.60	May 18	G	22 4 2.80	176 39 49.13
24	G	...	19.42	19	W	3.04	48.24
26	G	...	19.29	20	G	3.57	...
29	CF	...	18.36	21	G	3.04	...
30	G	...	19.89			22 4 3.11	176 39 48.69
Sept. 2	G	...	18.55	C Octantis S.P.			
4	G	...	19.30	May 19	G	22 4 3.09	176 39 49.43
8	G	...	20.54	21	G	3.37	50.70
9	CF	...	19.57	22	G	2.25	50.59
17	CF	...	18.95			22 4 2.90	176 39 50.24
19	CF	...	19.68	θ Aquarii.			
23	G	...	18.96	May 19	W	...	98 28 6.68
24	CF	...	16.47	20	G	...	8.41
30	G	...	20.16	Aug. 25	CF	...	7.97
Oct. 2	CF	...	18.39	Sept. 3	CF	...	7.40
6	CF	...	17.65	17	CF	...	7.42
20	CF	...	18.33	18	G	...	9.44
25	CF	...	18.77	23	G	...	8.43
27	CF	...	17.90	24	CF	...	8.72
		21 58 42	90 59 18.88	30	G	...	8.25

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>θ Aquarii—continued.</i>				<i>ζ Pegasi.</i>			
Oct. 3	G	^h ^m ^s ...	98° 28' 6".19	Sept. 19	CF	^h ^m ^s 22 34 35	79° 53' 14".84
20	CF	...	6.86	<i>α Piscis Australis.</i>			
23	G	...	8.44	Jan. 7	G	...	120 21 9.36
24	G	...	7.55	8	CF	...	9.99
27	CF	...	6.19	Apr. 8	T	...	8.78
31	CF	...	5.26	May 20	G	...	9.72
		22 9 33	98 28 7.55	29	G	...	10.65
<i>γ Aquarii.</i>				30	G	...	8.83
May 19	W	22 14 31.77	92 4 52.32	31	G	...	8.70
20	G	31.70	52.45	June 1	G	...	8.58
		22 14 31.74	92 4 52.39	2	G	...	10.01
<i>ζ Aquarii (as one mass).</i>				3	G	...	9.39
Oct. 31	CF	...	90 43 26.97	4	G	...	9.68
Nov. 1	G	22 21 43.53	29.22	Sept. 19	CF	...	7.89
		22 21 43.53	90 43 28.10	Oct. 5	G	...	10.07
<i>η Aquarii.</i>				22	G	...	9.18
Aug. 23	CF	...	90 49 39.13	23	G	...	9.43
Oct. 3	G	...	40.61	24	G	...	10.76
5	G	...	40.26	Nov. 28	G	22 50 1.12	10.74
15	CF	...	(34.79)	Dec. 29	T	...	8.21
18	G	...	38.37	30	T	...	8.84
19	G	...	40.60			22 50 1.12	120 21 9.41
22	G	...	40.78	<i>β Piscium.</i>			
23	G	...	39.50	May 20	G	22 56 51.34	86 55 18.92
24	G	...	39.76	Sept. 8	G	51.29	18.33
Nov. 1	G	...	39.57	Oct. 5	G	...	20.81
		22 28 16	90.49 39.84			22 56 51.32	86 55 19.35
<i>α Pegasi.</i>				<i>α Pegasi.</i>			
				Jan. 17	CF	22 57 53	75 32 11.17

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	P.A.	N.P.D.
τ Octantis.				κ Piscium.			
May 28	G	^h 23 ^m 5 ^s 31·03	178° 14' 14·90	June 6	G	^h ... ^s ...	89° 29' 57·83
29	G	29·21	13·82	Nov. 1	G	...	57·00
30	G	28·61	16·71	2	G	...	58·07
31	G	28·40	14·25	28	G	23 19 51·55	58·28
June 1	G	30·61	18·94	29	W	51·53	56·94
2	G	29·41	15·39			23 19 51·54	89 29 57·62
3	G	30·11	15·32	θ Piscium.			
4	G	29·54	16·40	Aug. 11	G	23 20 58·13	84 22 43·32
5	G	31·96	...	ι Piscium.			
6	G	28·53	21·35	Aug. 11	G	...	85 7 17·40
		23 5 29·84	178 14 16·34	Oct. 5	G	...	17·33
τ Octantis S.P.						23 32 51	85 7 17·37
May 28	G	23 5 31·03	178 14 16·40	26 Piscium.			
29	G	30·23	16·56	Nov. 29	W	23 48 4·25	83 41 44·90
30	G	28·40	17·67	30	W	4·40	44·40
31	G	27·76	16·98			23 48 4·33	83 41 44·65
June 1	G	29·41	18·49	ω Piscium.			
2	G	30·21	17·34	Sept. 8	G	...	83 54 1·75
3	G	30·27	17·78	9	CF	...	1·60
4	G	30·64	17·85	Oct. 5	G	...	1·99
5	W	31·94	16·26	Nov. 2	G	...	1·71
6	G	30·98	17·53	29	W	23 52 13·61	1·40
		23 5 30·09	178 14 17·29	30	W	...	0·92
γ Piscium.						23 52 13·61	83 54 1·56
Aug. 11	G	...	87 28 16·02				
Sept. 8	G	...	14·12				
Nov. 1	G	...	15·04				
2	G	...	16·09				
28	G	23 10 0·77	15·09				
29	W	0·75	14·17				
		23 10 0·76	87 28 15·09				

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

CATALOGUE

OF

MEAN RIGHT ASCENSIONS

AND

MEAN DECLINATIONS,

FOR

1862·0,

OF

STARS OBSERVED IN THE YEAR 1862.

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1862°o.	Annual Variation 1864°o.
					h m s	s			° ' "	"
1	Lalande 47300 ...	6·5	...	...	0 0 40	+3·071	0·82	1	— 3 19 0·91	+20·05
2	α Andromedæ ...	2·1	0·00	4	0 1 15·56	+3·086	...	...	+28 20	+19·90
3	Lalande 47374 ...	7½	0·90	7	0 2 51·22	+3·071	0·82	11	— 3 19 43·70	+20·05
4	Lalande 261	7·0	0·90	7	0 10 42·57	+3·073	0·81	17	+ 0 55 17·20	+20·03
5	δ Piscium	5·6	0·69	2	0 13 29·93	+3·081	0·69	2	+ 7 25 24·69	+20·04
6	44 Piscium	5·8	0·90	8	0 18 19·87	+3·072	0·81	19	+ 1 10 31·15	+19·98
7	β Hydri.....	2·9	0·00	13	0 18 26·48	+3·285	0·00	11	—78 1 54·15	+20·25
8	β Hydri S.P. ....	...	0·00	14	26·42	...	0·00	10	54·64	...
9	45 Piscium	7·3	0·47	1	0 18 34·99	+3·085	...	...	+ 6 57	+19·94
10	Lalande 670	7·0	0·90	7	0 23 3·19	+3·082	0·80	21	+ 4 5 47·03	+19·95
11	15 Ceti	6·9	0·90	7	0 31 1·35	+3·063	0·77	9	— 1 15 46·08	+19·86
12	β Ceti	2·1	0·00	4	0 36 39·67	+3·015	0·00	2	—18 44 40·34	+19·83
13	60 Piscium.....	6·8	0·90	6	0 40 15·62	+3·096	0·76	4	+ 5 59 13·55	+19·74
14	Lalande 1299 ...	6·0	0·92	4	0 41 8·95	+3·091	0·82	12	+ 4 34 13·77	+19·73
15	δ Piscium	4·6	0·85	8	0 41 31·58	+3·105	0·70	25	+ 6 50 0·59	+19·69
16	20 Ceti	5·0	0·90	6	0 45 57·48	+3·061	0·73	36	— 1 53 38·97	+19·64
17	ϵ Piscium	4·5	0·00	2	0 55 46·99	+3·106	0·00	6	+ 7 8 47·84	+19·50
18	26 Ceti	6·0	0·90	6	0 56 43·06	+3·082	0·73	38	+ 0 37 35·07	+19·41
19	29 Ceti	6·6	0·90	6	1 0 52·92	+3·087	0·82	11	+ 1 16 16·10	+18·91
20	ϵ Piscium	5·7	0·91	5	1 1 15·82	+3·083	0·70	25	+ 4 55 7·35	+19·17
21	f Piscium	5·1	0·90	6	1 10 41·05	+3·088	0·77	8	+ 2 53 12·61	+19·09
22	43 Ceti	6·9	0·90	6	1 15 31·47	+3·062	0·77	9	— 1 10 20·54	+18·97
23	θ Ceti.....	3·8	...	...	1 17 7	+2·996	0·00	1	— 8 53 47·48	+18·73
24	94 Piscium	5·6	0·54	2	1 19 14·76	+3·225	0·54	2	+18 31 27·56	+18·83
25	Bradley 191	7·2	0·90	6	1 19 23·78	+3·063	0·75	5	— 1 7 1·10	+18·88
26	μ Piscium	5·2	0·90	6	1 22 57·54	+3·135	0·69	24	+ 5 25 52·93	+18·72
27	η Piscium	3·7	0·00	1	1 24 6·37	+3·197	0·00	7	+14 38 0·25	+18·71
28	B.A.C. 477	5·9	0·91	1	1 28 27·17	+3·223	0·91	1	+16 43 34·10	+18·58
29	ν Piscium	4·7	0·00	1	1 34 15·27	+3·114	0·00	18	+ 4 47 17·26	+18·38
30	Lalande 3298 ...	6·5	0·90	6	1 41 17·34	+3·102	0·68	19	+ 2 59 42·92	+18·12

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					h m s	s			° ' "	"
31	ξ Piscium	4·7	0·90	6	1 46 24·91	+3·099	0·68	19	+ 2 30 17·83	+17·94
32	β Arietis	2·8	1 47 1	+3·298	0·00	5	+20 7 54·67	+17·80
33	α Arietis	2·0	0·00	3	1 59 24·05	+3·365	0·00	6	+22 48 29·69	+17·26
34	η Arietis	5·4	0·54	1	2 5 4·86	+3·342	0·54	1	+20 33 38·87	+17·15
35	θ Arietis	5·6	0·84	3	2 10 27·31	+3·322	0·84	3	+19 15 40·47	+16·90
36	31 Arietis	5·6	...	...	2 29 7	+3·260	0·92	1	+11 50 48·32	+15·88
37	ν Arietis	5·4	0·70	1	2 30 59·26	+3·391	0·70	2	+21 21 44·99	+15·84
38	μ Arietis	5·8	...	...	2 34 35	+3·368	0·92	1	+19 25 14·27	+15·62
39	π Arietis	5·6	0·70	2	2 41 35·85	+3·334	0·70	2	+16 53 17·92	+15·27
40	41 Arietis	3·8	0·02	1	2 41 52·06	+3·512	0·02	1	+26 41 20·06	+15·13
41	ε Arietis	4·6	0·02	2	2 51 19·61	+3·415	0·30	3	+20 47 9·54	+14·70
42	α Ceti	2·7	0·00	2	2 55 4·14	+3·127	0·00	5	+ 3 32 46·17	+14·40
43	δ Arietis	4·5	...	...	3 3 45	+3·416	0·00	3	+19 12 9·21	+13·95
44	ζ Arietis	4·9	0·97	3	3 6 58·57	+3·434	0·97	3	+20 31 49·72	+13·68
45	17 Tauri	3·8	0·75	3	3 36 41·18	+3·548	0·78	4	+23 40 35·30	+11·70
46	η Tauri	3·0	...	...	3 39 17	+3·551	0·00	2	+23 40 31·12	+11·51
47	27 Tauri	3·8	0·78	2	3 40 57·76	+3·553	0·80	3	+23 37 41·97	+11·38
48	γ Hydri	3·1	0·19	3	3 49 25·02	-1·018	0·19	7	-74 39 39·65	+10·94
49	γ Hydri S.P. ....	...	0·20	5	24·96	...	0·20	8	40·09	...
50	γ Eridani	3·1	...	...	3 51 35	+2·795	0·00	5	-13 54 12·44	+10·55
51	Α Tauri	4·5	0·60	5	3 56 32·49	+3·534	0·60	5	+21 42 6·32	+10·22
52	ο Eridani	4·1	...	...	4 5 8	+2·923	0·00	2	- 7 11 59·70	+ 9·71
53	γ Doradus	4·3	...	...	4 12 25	+1·561	0·03	1	-51 50 10·82	+ 9·22
54	ν Tauri	4·6	0·10	1	4 18 3·22	+3·579	0·10	1	+22 29 50·30	+ 8·59
55	ε Tauri	3·7	...	...	4 20 34	+3·494	0·00	5	+18 52 16·33	+ 8·39
56	α Tauri	1·0	0·00	1	4 28 0·29	+3·434	0·00	10	+16 13 42·46	+ 7·64
57	B.A.C. 1454	5·8	0·66	1	4 33 21·09	-5·640	0·65	4	-81 53 15·53	+ 7·42
58	B.A.C. 1454 S.P. ...	...	0·66	2	21·19	...	0·65	5	17·95	...
59	τ Tauri	4·4	0·30	3	4 33 58·02	+3·591	0·30	3	+22 41 19·66	+ 7·33
60	β Cæli	5·2	4 37 11	+2·109	0·04	2	-37 24 58·85	+ 7·29

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					h m s	"			° ' "	"
61	B.A.C. 1483	6·4	0·08	1	4 41 15·61	+ 2·030	0·08	1	—39 36 27·65	+ 6·75
62	ε Tauri	4·7	0·30	3	4 54 51·05	+ 3·579	0·30	3	+21 23 22·15	+ 5·57
63	ε Leporis	3·3	...	...	4 59 37	+ 2·536	0·00	2	—22 33 32·50	+ 5·15
64	η ² Pictoris.....	4·9	...	...	5 1 24	+ 1·545	0·05	1	—49 46 13·00	+ 5·09
65	β Orionis.....	1·0	0·00	5	5 7 54·43	+ 2·879	0·00	13	— 8 21 50·01	+ 4·52
66	π Tauri	5·2	0·93	2	5 10 59·28	+ 3·600	0·93	2	+21 57 1·26	+ 4·16
67	ο Columbæ	5·0	0·08	1	5 12 30·60	+ 2·155	0·07	2	—35 1 55·33	+ 3·81
68	θ Doradus	4·8	0·07	1	5 13 52·08	— 0·055	0·07	1	—67 20 27·21	+ 4·01
69	β Tauri	1·9	0·00	1	5 17 34·23	+ 3·787	0·00	7	+28 29 13·92	+ 3·50
70	κ Pictoris	6·4	0·08	1	5 19 49·83	+ 1·100	0·08	1	—56 15 53·72	+ 3·49
71	θ Pictoris (1st Star)	7½	0·10	1	5 21 34·93	+ 1·358	0·10	1	—52 25 51·96	+ 3·34
72	θ Pictoris (2nd Star)	6½	0·04	2	5 21 38·32	+ 1·358	0·04	2	—52 26 16·34	+ 3·34
73	δ Orionis	Var.	0·00	4	5 24 57·47	+ 3·061	0·00	6	— 0 24 15·40	+ 3·04
74	B.A.C. 1756	5·3	0·09	3	5 28 12·68	+ 2·015	0·09	3	—38 36 40·70	+ 2·77
75	ε Orionis	1·8	0·00	3	5 29 12·73	+ 3·040	0·00	10	— 1 17 35·04	+ 2·68
76	ζ Tauri	3·0	0·03	2	5 29 24·08	+ 3·582	0·03	2	+21 3 17·00	+ 2·64
77	α Columbæ	2·7	0·00	5	5 34 39·16	+ 2·172	0·00	12	—34 8 58·22	+ 2·16
78	γ Mensæ	5·0	0·08	2	5 37 21·91	— 2·442	0·06	4	—76 26 13·73	+ 2·22
79	μ Columbæ	5·4	0·04	1	5 40 52·02	+ 2·228	0·04	1	—32 21 39·75	+ 1·67
80	B.A.C. 1855	5·1	0·07	3	5 42 38·08	+ 1·660	0·07	3	—46 38 57·89	+ 1·52
81	β Pictoris	3·9	0·12	1	5 44 0·98	+ 1·418	0·12	1	—51 7 4·06	+ 1·49
82	δ Doradus	4·5	0·10	1	5 44 31·96	+ 0·104	0·10	1	—65 47 14·34	+ 1·33
83	χ ¹ Orionis	4·7	0·86	2	5 46 12·74	+ 3·549	0·86	2	+20 14 50·55	+ 1·10
84	α Orionis	Var.	0·00	5	5 47 42·07	+ 3·246	0·00	11	+ 7 22 42·08	+ 1·09
85	B.A.C. 1890	4·8	0·08	1	5 48 46·04	+ 1·354	0·08	1	—52 8 30·35	+ 0·87
86	ε Doradus	5·0	0·08	2	5 50 2·08	— 0·065	0·08	2	—66 56 8·02	+ 0·87
87	B.A.C. 1933	4·0	0·06	2	5 54 55·39	+ 1·833	0·06	2	—42 49 28·23	+ 0·44
88	ν Orionis	4·4	0·00	1	5 59 41·60	+ 3·425	0·00	3	+14 46 52·58	0·00
89	η Geminorum.....	Var.	0·41	5	6 6 32·90	+ 3·622	0·48	6	+22 32 35·95	— 0·59
90	μ Geminorum....	3·2	0·00	3	6 14 36·66	+ 3·631	0·00	15	+22 34 51·38	— 1·39

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					h m s	s			° ' "	"
91	α Argûs	1°0	0°00	11	6 20 53·31	+ 1·330	0°00	10	—52 37 16·43	— 1·83
92	Z Puppis	5½	0°04	2	6 26 25·41	+ 1·481	0°04	2	—50 8 34·30	— 2·31
93	γ Geminorum ...	2°0	0°00	3	6 29 44·37	+ 3·467	0°00	7	+16 30 48·86	— 2·64
94	α Canis Majoris ..	1°4	0°00	22	6 39 3·91	+ 2·644	0°00	21	—16 31 45·32	— 4·61
95	B.A.C. 2252	4·9	...	...	6 45 51	+ 2·181	0°03	1	—34 12 20·43	— 3·99
96	α Pictoris	3·2	0°06	2	6 46 46·36	+ 0·621	0°06	3	—61 47 36·15	— 3·89
97	B Carinæ	4·4	0°06	3	6 46 51·49	+ 1·305	0°06	3	—53 27 43·12	— 4·08
98	ϵ Canis Majoris ..	1°5	0°00	5	6 53 12·12	+ 2·356	0°00	12	—28 47 10·61	— 4·60
99	ζ Geminorum ...	Var.	0°93	2	6 55 55·33	+ 3·563	0°47	5	+20 46 9·38	— 4·85
100	γ Canis Majoris ..	4·1	0°00	1	6 57 31·02	+ 2·713	0°00	3	—15 25 53·08	— 4·99
101	25 Canis Majoris	1°6	0°08	1	7 2 46·71	+ 2·438	0°06	2	—26 10 34·71	— 5·43
102	A Puppis	4·9	0°00	3	7 4 13·12	+ 2·015	0°08	4	—39 26 9·14	— 5·55
103	E Puppis	5·5	0°05	2	7 7 41·68	+ 1·983	0°05	2	—40 16 0·97	— 5·84
104	I Puppis	4·5	0°00	1	7 8 37·70	+ 1·724	0°09	1	—46 31 50·29	— 5·92
105	27 Canis Majoris	4·5	0°08	2	7 8 37·73	+ 2·444	0°08	2	—26 7 2·34	— 5·87
106	λ Geminorum ...	3·6	...	...	7 10 10	+ 3·453	0°11	2	+16 47 9·60	— 6·09
107	δ Geminorum ...	3·7	...	...	7 11 53	+ 3·589	0°00	5	+22 13 58·69	— 6·19
108	π Argûs.....	2°5	0°08	2	7 12 16·21	+ 2·119	0°08	2	—36 51 4·84	— 6·22
109	F Puppis	5·3	...	...	7 13 51	+ 2·047	0°05	1	—38 57 36·41	— 6·36
110	δ Volantis.....	3·9	0°07	2	7 16 53·24	— 0·010	0°07	2	—67 42 15·29	— 6·60
111	ι Geminorum ...	4°0	0°04	1	7 17 9·14	+ 3·735	0°04	1	+28 4 6·85	— 6·71
112	31 Canis Majoris.	2°4	0°06	1	7 18 38·44	+ 2·371	0°06	1	—29 2 9·11	— 6·74
113	B.A.C. 2478	6·1	0°07	2	7 23 45·37	+ 2·317	0°07	2	—31 10 22·20	— 7·16
114	σ Argûs.....	3°0	0°08	3	7 24 51·25	+ 1·898	0°08	3	—43 1 25·77	— 7·08
115	B.A.C. 2484	4·7	0°06	1	7 25 20·68	+ 2·334	0°06	1	—30 40 29·06	— 7·30
116	68 Geminorum...	5°0	0°93	1	7 25 43·89	+ 3·429	0°93	1	+16 7 14·37	— 7·34
117	ν Geminorum ...	4°2	0°12	1	7 27 24·85	+ 3·707	0°12	2	+27 11 55·93	— 7·58
118	g Puppis	7°0	0°10	1	7 28 47·90	+ 2·473	0°10	1	—25 50 1·76	— 7·58
119	α Canis Minoris..	0°5	0°00	10	7 32 4·61	+ 3·145	0°00	15	+ 5 34 32·56	— 8·87
120	κ Geminorum ...	3·6	0°19	1	7 36 6·62	+ 3·631	0°19	5	+24 43 32·46	— 8·23

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					h m s	s			° ' "	"
121	β Geminorum ...	1.1	7 36 52	+ 3.682	0.00	1	+28 21 23.60	- 8.29
122	γ Geminorum ...	5.1	0.93	1	7 38 8.00	+ 3.481	0.93	1	+18 50 37.95	- 8.38
123	W Puppis	5.1	0.10	2	7 38 59.96	+ 2.032	0.10	2	-40 35 52.38	- 8.40
124	ϵ Puppis	3.4	0.06	1	7 40 20.30	+ 2.138	0.06	1	-37 38 6.27	- 8.51
125	ξ Argûs	3.4	0.04	1	7 43 29.37	+ 2.522	0.04	1	-24 30 54.30	- 8.73
126	η Puppis	5.5	0.08	1	7 45 23.01	+ 2.777	0.08	1	-13 32 3.44	- 9.25
127	B.A.C. 2642	4.8	0.06	1	7 49 10.42	+ 1.692	0.06	1	-49 15 19.37	- 9.20
128	B.A.C. 2655	4.8	0.06	1	7 52 10.03	+ 2.392	0.06	1	-29 57 54.74	- 9.44
129	B.A.C. 2670	4.5	0.08	1	7 54 16.45	+ 1.727	0.08	1	-48 52 19.80	- 9.60
130	δ Cancri	5.6	...	...	7 55 2	+ 3.697	0.00	1	+28 10 39.35	- 9.70
131	ζ Argûs	2.3	0.04	1	7 58 43.99	+ 2.111	0.04	1	-39 37 2.05	- 9.94
132	μ Cancri	5.3	...	...	7 59 38	+ 3.541	0.15	4	+21 58 47.03	-10.07
133	ι Argûs	2.9	0.00	2	8 1 39.99	+ 2.553	0.00	4	-23 54 31.67	-10.10
134	ζ Cancri	5.0	...	...	8 4 18	+ 3.449	0.04	2	+18 3 40.57	-10.46
135	γ Argûs	1.9	0.25	2	8 5 16.72	+ 1.850	0.25	2	-46 55 45.95	-10.43
136	ϵ Argûs	1.7	0.17	3	8 19 40.67	+ 1.236	0.17	3	-59 3 58.05	-11.45
137	θ Chamæleontis ..	4.2	0.06	1	8 24 42.66	- 1.672	0.06	1	-77 2 15.30	-11.82
138	η Cancri	5.5	0.00	1	8 24 43.46	+ 3.480	0.00	3	+20 54 27.28	-11.89
139	b Mali	3.9	0.06	1	8 34 42.10	+ 2.346	0.06	1	-34 49 11.90	-12.54
140	γ Cancri	4.8	0.15	2	8 35 17.82	+ 3.483	0.19	2	+21 57 43.24	-12.61
141	b Velorum	3.7	0.06	1	8 36 2.88	+ 1.990	0.06	1	-46 9 32.86	-12.63
142	δ Cancri	4.3	0.61	2	8 36 50.36	+ 3.419	0.49	3	+18 39 33.70	-12.91
143	ϵ Hydræ	3.6	0.00	1	8 39 28.00	+ 3.183	0.00	2	+ 6 55 21.26	-12.89
144	α Cancri	4.3	0.17	4	8 50 56.26	+ 3.280	0.17	6	+12 23 22.98	-13.64
145	ϵ Velorum	3.7	0.06	1	8 59 23.83	+ 2.061	0.06	1	-46 32 59.47	-14.17
146	α Volantis	4.1	0.06	1	9 0 15.53	+ 0.965	0.06	1	-65 50 47.04	-14.20
147	ϵ Cancri	5.0	0.14	3	9 0 16.24	+ 3.256	0.09	3	+11 13 17.09	-14.20
148	δ Cancri	6.6	0.00	1	9 11 16.52	+ 3.359	0.00	2	+18 17 19.68	-15.01
149	β Argûs	1.7	9 11	+ 0.686	0.73	1	-69 8 56.64	-14.80
150	β Argûs S.P.	0.75	1	39.74	...	0.75	1	56.32	...

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151	α Hydræ	2·0	0·00	1	9 20 48·36	+ 2·949	0·00	6	— 8 3 44·02	—15·36
152	ω Leonis	5·6	0·94	1	9 21 3·99	+ 3·220	0·94	2	+ 9 39 21·53	—15·41
153	ψ Argûs.....	3·5	0·06	1	9 25 16·11	+ 2·355	0·06	1	—39 51 48·47	—15·66
154	ι Sextantis	5·0	0·94	1	9 29 55·39	+ 3·173	0·94	1	+ 7 27 9·51	—15·89
155	π Carinæ	4·6	0·06	1	9 35 31·73	+ 1·667	0·06	1	—60 42 15·74	—16·20
156	ϵ Leonis	3·1	0·00	1	9 38 0·67	+ 3·420	...	...	+24 24	—16·34
157	B.A.C. 3336.....	6·0	...	...	9 38 53	+ 3·171	0·12	1	+ 7 20 38·22	—16·38
158	ι 8 Leonis	6·1	0·27	2	9 38 57·13	+ 3·241	0·27	2	+12 26 39·24	—16·35
159	π Leonis	5·0	0·00	2	9 52 55·14	+ 3·176	0·00	7	+ 8 42 18·27	—17·07
160	A Leonis	4·6	0·35	1	10 0 34·71	+ 3·189	0·35	1	+10 40 21·25	—17·44
161	α Leonis.....	1·4	0·00	2	10 1 1·16	+ 3·202	0·00	8	+12 38 25·82	—17·40
162	γ Leonis	2·0	0·00	1	10 12 21·77	+ 3·319	0·00	1	+20 32 17·31	—18·02
163	α Antliæ	4·2	...	...	10 20 50	+ 2·744	0·22	1	—30 21 58·08	—18·21
164	β 0 Sextantis	4·9	...	...	10 23 14	+ 3·069	0·12	1	+ 0 4 10·24	—18·31
165	ρ Leonis... ..	4·0	0·00	1	10 25 32·46	+ 3·165	0·00	1	+10 0 56·91	—18·37
166	ι Carinæ	4·7	...	...	10 33 30	+ 2·269	0·22	1	—58 27 55·80	—18·66
167	β 3 Sextantis	6·2	0·12	1	10 34 23·06	+ 3·051	0·12	2	— 1 1 1·52	—18·78
168	β 4 Sextantis	7·7	0·27	1	10 35 29·83	+ 3·099	0·27	1	+ 4 18 11·87	—18·68
169	η Argûs	Var.	...	...	10 39 43	+ 2·309	0·00	1	—58 57 37·34	—18·84
170	ι Leonis	5·3	0·00	1	10 42 0·07	+ 3·159	0·00	3	+11 16 29·07	—18·93
171	β 5 Leonis	6·0	0·43	2	10 48 36·49	+ 3·088	0·43	2	+ 1 28 20·15	—19·09
172	δ Leonis.....	5·0	0·43	2	10 53 26·15	+ 3·099	0·43	2	+ 4 21 29·33	—19·23
173	ρ Leonis	5·0	0·30	3	10 54 47·29	+ 3·061	0·24	4	— 1 44 32·98	—19·26
174	χ Leonis	4·7	...	...	10 57 54	+ 3·097	0·00	1	+ 8 4 54·71	—19·35
175	ϕ Leonis	4·5	0·24	6	11 9 38·82	+ 3·049	0·23	7	— 2 53 51·20	—19·60
176	δ Crateris	3·9	...	...	11 12 27	+ 2·993	0·00	10	—14 1 54·98	—19·42
177	ν Leonis	4·5	...	...	11 29 53	+ 3·070	0·00	6	— 0 3 43·23	—19·84
178	β Virginis.....	3·7	...	...	11 43 31	+ 3·124	0·05	1	+ 2 32 31·69	—20·27
179	B.A.C. 4006	5·7	0·35	1	11 43 59·01	+ 3·065	0·35	1	— 4 33 56·58	—20·01
180	ι 0 Virginis	6·1	0·35	2	12 2 36·90	+ 3·072	0·35	2	+ 2 40 22·41	—20·24

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862 ^o .	Annual Variation 1864 ^o .	Fraction of Year.	No. of Obs.	Mean Dec. 1862 ^o .	Annual Variation 1864 ^o .
					h m s	s			° ' "	"
181	ϵ Corvi	3.1	...	...	12 3 2	+ 3.074	0.00	2	21 51 7.44	-20.03
182	η Virginis	4.1	...	...	12 12 51	+ 3.066	0.00	3	+ 0 6 1.57	-20.05
183	ζ Virginis	5.7	0.36	2	12 26 39.58	+ 3.088	0.36	2	- 8 41 24.32	-19.91
184	β Corvi	2.8	...	...	12 27 8	+ 3.135	0.00	10	-22 37 58.62	-19.97
185	χ Virginis	4.7	0.29	5	12 32 7.60	+ 3.089	0.29	6	- 7 14 6.59	-19.88
186	γ Virginis	3.0	0.00	1	12 34 40.10	+ 3.036	0.00	1	- 0 41 28.60	-19.81
187	ψ Virginis	5.0	0.32	4	12 47 10.72	+ 3.111	0.32	4	- 8 47 17.81	-19.65
188	θ Virginis	4.4	...	...	13 2 48	+ 3.098	0.00	1	- 4 48 3.39	-19.34
189	53 Virginis	5.1	0.39	2	13 4 43.30	+ 3.179	0.39	4	-15 27 10.23	-19.54
190	η Musæ	4.9	...	...	13 5 57	+ 3.962	0.11	1	-67 9 44.62	-19.27
191	α Virginis	1.2	...	...	13 17 56	+ 3.150	0.00	11	-10 26 22.70	-18.92
192	λ Virginis	5.5	0.05	2	13 25 42.21	+ 3.149	0.05	2	- 9 27 9.25	-18.69
193	86 Virginis	6.0	0.36	1	13 38 35.30	+ 3.185	0.36	1	-11 43 59.94	-18.21
194	89 Virginis	5.2	0.51	2	13 42 22.79	+ 3.245	0.51	2	-17 26 42.39	-18.12
195	τ Virginis	4.4	...	...	13 54 37	+ 3.047	0.00	1	+ 2 12 51.29	-17.63
196	B.A.C. 4700	5.3	0.51	1	14 3 18.42	+ 3.264	0.51	2	-15 38 53.18	-17.21
197	κ Virginis	4.3	0.36	2	14 5 32.35	+ 3.190	0.36	2	- 9 37 45.42	-16.98
198	5 Libræ	6.6	0.59	1	14 38 21.58	+ 3.296	0.59	1	-14 52 31.38	-15.44
199	μ Libræ	5.4	0.28	1	14 41 45.53	+ 3.275	...	...	-13 34	-15.27
200	α Libræ	3.0	...	...	14 43 15	+ 3.305	0.00	4	-15 27 57.24	-15.24
201	γ Scorpii 1 Hev. ..	3.3	0.41	3	14 56 0.04	+ 3.493	0.51	2	-24 44 12.48	-14.45
202	ι Libræ	4.9	0.36	5	15 4 21.71	+ 3.405	0.36	5	-19 15 59.64	-13.94
203	β Libræ	2.7	...	...	15 9 35	+ 3.218	0.00	11	- 8 52 16.69	-13.58
204	ζ Libræ	6.2	0.59	1	15 20 28.74	+ 3.376	0.59	1	-16 13 56.11	-12.55
205	Scorpii 3 Hev. ...	3.9	0.59	1	15 28 39.25	+ 3.623	0.59	1	-27 40 29.76	-12.29
206	δ Scorpii	2.5	0.52	2	15 52 10.76	+ 3.534	0.52	2	-22 13 32.17	-10.63
207	β Scorpii	2.1	...	...	15 57 25	+ 3.475	0.00	3	-19 25 27.53	-10.24
208	δ Ophiuchi	2.8	...	...	16 7 7	+ 3.136	0.00	14	- 3 20 10.08	- 9.61
209	B.A.C. 5412 ...	6.0	0.66	2	16 10 21.69	+20.472	0.65	4	-86 5 10.53	- 9.23
210	B.A.C. 5412 S.P. ...	...	0.66	1	21.45	...	0.65	4	12.78	...

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1862°o.	Annual Variation 1864°o.
					h m s	"			° ' "	"
211	σ Scorpii.....	3.0	0.26	3	16 12 48.37	+ 3.633	0.21	2	—25 15 28.84	— 9.04
212	α Scorpii.....	1.1	...	...	16 20 57	+ 3.665	0.00	23	—26 7 19.40	— 8.42
213	A Ophiuchi (1st Star)...	5.8	0.22	2	17 6 51.86	+ 3.679	0.22	2	—25 23 46.24	— 5.74
214	θ Ophiuchi	3.4	...	...	17 13 32	+ 3.677	0.00	5	—24 51 27.67	— 4.06
215	δ Ophiuchi	4.4	0.60	3	17 18 32.74	+ 3.820	0.54	4	—29 44 15.91	— 3.74
216	α Ophiuchi	2.2	...	...	17 28 32	+ 2.781	0.00	2	+12 39 48.70	— 2.95
217	σ Octantis.....	5.5	...	...	17 51 46	+109.673	0.00	3	—89 16 41.45	— 0.27
218	γ^1 Sagittarii	Var.	0.60	1	17 56 12.39	+ 3.831	...	...	—29 35	— 0.33
219	μ Sagittarii	4.1	...	...	18 5 31	+ 3.586	0.00	7	—21 5 27.61	+ 0.49
220	δ Sagittarii	2.8	0.30	2	18 12 9.56	+ 3.841	0.27	3	—29 52 56.24	+ 1.05
221	λ Sagittarii	3.1	0.50	6	18 19 27.25	+ 3.702	0.45	8	—25 29 37.97	+ 1.51
222	ϕ Sagittarii	3.3	0.45	1	18 37 1.96	+ 3.749	0.45	1	—27 7 42.27	+ 3.22
223	σ Sagittarii	2.3	0.45	1	18 46 42.37	+ 3.722	0.45	1	—26 27 51.75	+ 4.00
224	ξ^2 Sagittarii	3.5	0.60	1	18 49 29.69	+ 3.580	0.41	2	—21 17 3.10	+ 4.30
225	π Sagittarii	3.1	0.51	5	19 1 33.27	+ 3.571	0.52	8	—21 14 21.37	+ 5.30
226	ρ Sagittarii	3.9	0.48	4	19 13 40.05	+ 3.483	0.52	5	—18 6 12.17	+ 6.37
227	δ Aquilæ	3.5	...	...	19 18 32	+ 3.025	0.00	2	+ 2 50 33.81	+ 6.84
228	κ^2 Sagittarii	4.6	...	...	19 28 18	+ 3.656	0.00	3	—25 11 4.62	+ 7.54
229	f Sagittarii	5.1	0.30	2	19 38 18.55	+ 3.505	0.30	1	—20 5 22.69	+ 8.27
230	γ Aquilæ	2.8	...	...	19 39 42	+ 2.852	0.00	1	+10 16 46.96	+ 8.47
231	α Aquilæ	1.0	...	...	19 44 3	+ 2.927	0.00	8	+ 8 30 24.19	+ 9.19
232	α^1 Capricorni	4.5	...	...	20 10 0	+ 3.330	0.00	1	—12 55 54.39	+10.81
233	α^2 Capricorni	3.8	...	...	20 10 24	+ 3.334	0.00	2	—12 58 9.19	+10.83
234	α Pavonis ..	2.1	...	...	20 14 43	+ 4.799	0.00	1	—57 10 22.44	+11.11
235	ρ Capricorni	5.0	...	...	20 20 59	+ 3.429	0.00	5	—18 16 0.67	+11.58
236	τ Capricorni	5.3	0.43	3	20 31 33.15	+ 3.362	0.43	3	—15 26 9.12	+12.31
237	ϵ Aquarii	3.8	0.60	3	20 40 12.19	+ 3.252	0.75	2	— 9 59 53.58	+12.89
238	θ Capricorni	4.3	0.38	1	20 58 11.12	+ 3.381	0.38	1	—17 46 42.89	+14.02
239	ν Aquarii	4.6	0.68	3	21 2 4.53	+ 3.274	0.68	3	—11 55 40.66	+14.31
240	ι Capricorni	4.4	0.38	1	21 14 33.46	+ 3.348	0.38	1	—17 25 12.00	+15.07

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1862°0.	Annual Variation 1864°0.
					^h ^m ^s	^s			[°] ['] ["]	["]
241	β Aquarii	3.1	...	...	21 24 17	+ 3.162	0.00	18	— 6 10 33.57	+15.61
242	ξ Aquarii	4.8	0.53	1	21 30 24.17	+ 3.199	0.53	1	— 8 28 15.90	+15.92
243	ϵ Pegasi.....	2.4	...	...	21 37 24	+ 2.946	0.00	2	+ 9 14 38.53	+16.31
244	σ Aquarii	4.7	0.75	1	21 56 10.67	+ 3.105	0.75	1	— 2 49 12.66	+17.20
245	α Aquarii	3.2	...	...	21 58 42	+ 3.083	0.00	19	— 0 59 18.88	+17.32
246	α Gruis	1.9	0.00	2	21 59 31.19	+ 3.817	0.00	5	—47 37 38.47	+17.17
247	ζ Octantis.....	5.7	0.38	4	22 4 3.11	+14.077	0.38	2	—86 39 48.69	+17.64
248	ζ Octantis S.P....	...	0.38	3	2.90	...	0.38	3	50.24	...
249	θ Aquarii	4.3	...	...	22 9 33	+ 3.170	0.00	15	— 8 28 7.55	+17.76
250	γ Aquarii	4.1	0.38	2	22 14 31.74	+ 3.100	0.38	2	— 2 4 52.39	+17.99
251	ζ Aquarii (as one mass)	3.8	0.83	1	22 21 43.53	+ 3.090	0.83	2	— 0 43 28.10	+18.29
252	η Aquarii	4.2	...	...	22 28 16	+ 3.084	0.00	9	— 0 49 39.84	+18.42
253	ζ Pegasi.....	3.6	...	...	22 34 35	+ 2.990	0.00	1	+10 6 45.16	+18.66
254	α Piscis Australis	1.3	0.00	1	22 50 1.12	+ 3.330	0.00	19	—30 21 9.41	+18.97
255	β Piscium	4.6	0.53	2	22 56 51.32	+ 3.052	0.61	3	+ 3 4 40.65	+19.29
256	α Pegasi.....	2.6	...	...	22 57 53	+ 2.983	0.00	1	+14 27 48.83	+19.30
257	τ Octantis.....	5.6	0.42	10	23 5 29.84	+13.212	0.41	9	—88 14 16.34	+19.52
258	τ Octantis S.P....	...	0.42	10	30.09	...	0.42	10	17.29	...
259	γ Piscium	3.8	0.00	2	23 10 0.76	+ 3.108	0.00	6	+ 2 31 44.91	+19.60
260	κ Piscium	5.0	0.00	2	23 19 51.54	+ 3.074	0.00	5	+ 0 30 2.38	+19.65
261	θ Piscium	4.4	0.61	1	23 20 58.13	+ 3.039	0.61	1	+ 5 37 16.68	+19.72
262	ι Piscium	4.3	...	...	23 32 51	+ 3.082	0.00	2	+ 4 52 42.63	+19.47
263	σ Piscium	6.1	0.91	2	23 48 4.33	+ 3.065	0.91	2	+ 6 18 15.35	+20.02
264	ω Piscium	4.2	0.00	1	23 52 13.61	+ 3.076	0.00	6	+ 6 5 58.44	+19.94

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

SEPARATE RESULTS

OF

MERIDIAN OBSERVATIONS OF STARS

MADE IN THE YEAR

1863,

REDUCED TO MEAN PLACE FOR 1863'0.

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Pegasi.				β Hydri S.P.			
Aug. 3	CF	^h ... ^m ... ^s ...	75° 34' 39".96	Apr. 1	G	^h ... ^m ... ^s ...	168° 1' 33".66
Oct. 5	G	0 6 11".10	41".26	July 2	G	0 18 29".61	34".66
6	CF	11".02	39".67	9	W	...	34".97
7	IF	11".06	41".93	Nov. 11	G	29".61	...
9	CF	11".07	39".91			0 18 29".61	168 1 34".43
Nov. 10	CF	...	40".37	45 Piscium.			
11	IF	10".92	38".12	Aug. 3	CF	0 18 38".41	83 3 58".25
12	G	11".03	41".65	B.A.C. 143.			
17	IF	...	40".36	Oct. 5	G	0 27 56".24	143 7 48".04
		0 6 11".03	75 34 40".36	6	CF	55".85	49".03
δ Piscium.				7	IF	56".10	48".27
Aug. 3	CF	0 13 33".18	82 34 13".47	9	CF	56".15	48".80
Oct. 23	T	33".08	15".45	10	IF	56".04	48".79
		0 13 33".13	82 34 14".46			0 27 56".08	143 7 48".59
Lacaille 57.				β Ceti.			
Nov. 17	IF	0 14 21	167 59 0".24	Apr. 10	G	...	108 44 19".62
β Hydri.				12	G	...	21".16
July 2	G	0 18 29".74	168 1 32".51	24	G	...	17".95
Oct. 5	G	...	32".25	27	G	...	20".12
6	CF	...	31".89	29	G	...	20".40
7	IF	...	33".13	May 3	CF	...	19".74
9	CF	29".52	33".70	5	G	...	22".43
10	IF	29".45	31".82	Oct. 5	G	0 36 42".75	20".72
26	G	...	33".32	6	CF	42".67	19".87
Nov. 2	G	...	33".60	7	IF	42".73	20".17
10	CF	...	34".37	9	CF	42".70	18".38
11	IF	29".29	33".56	10	IF	42".68	20".63
12	G	29".68	32".49	26	G	...	18".70
16	G	...	32".36			0 36 42".71	108 44 19".99
18	G	...	32".76				
		0 18 29".54	168 1 32".90				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Piscium.				θ^1 Ceti—continued.			
Aug. 31	G	^{h m s} 0 41 34.59	83° 9' 40".48	Dec. 4	G	^{h m s} ... 98° 53' 27".97	
Oct. 24	T	34.57	39.70	18	CF	...	26.72
25	T	...	40.53	19	IF	...	28.48
		0 41 34.58	83 9 40.24			1 17 0.67	98 53 27.59
ϵ Piscium.				η Piscium.			
Aug. 31	G	...	82 50 52.99	Aug. 3	CF	...	75 21 41.88
Oct. 6	CF	0 55 50.12	51.96	4	G	1 24 9.44	41.25
7	IF	50.18	52.80	31	G	...	40.42
9	CF	50.21	51.32	Nov. 20	CF	...	40.14
10	IF	50.16	53.63	22	W	...	40.30
24	T	...	53.23	Dec. 4	G	...	43.07
25	T	...	52.83			1 24 9.44	75 21 41.18
Dec. 7	G	...	53.94	101 Piscium.			
9	CF	...	51.01	Aug. 3	CF	1 28 27.19	76 2 25.10
11	G	...	53.01	4	G	27.25	...
18	CF	...	54.20			1 28 27.22	76 2 25.10
19	IF	...	54.21				
		0 55 50.17	82 50 52.93	105 Piscium.			
ζ Piscium (1st Star).				Aug 31	G	1 32 17.64	74 17 25.03
Aug. 31	G	1 6 34.49	83 8 58.82	α Eridani.			
Dec. 18	CF	34.76	59.64	Jan. 26	T	...	147 56 1.38
19	IF	...	59.77	Feb. 26	T	...	1.04
		1 6 34.63	83 8 59.41	Mar. 2	IF	...	0.82
θ^1 Ceti.				3	IF	...	1.35
Aug. 4	G	1 17 0.67	98 53 27.77	May 7	G	...	1.27
Nov. 20	CF	...	27.03	12	CF	...	1.00
						1 32 36	147 56 1.14

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1862°0.	Annual Variation 1864°0.
					h m s	s			° ' "	"
61	B.A.C. 1483	6·4	0·08	1	4 41 15·61	+ 2·030	0·08	1	—39 36 27·65	+ 6·75
62	ε Tauri	4·7	0·30	3	4 54 51·05	+ 3·579	0·30	3	+21 23 22·15	+ 5·57
63	ε Leporis	3·3	...	...	4 59 37	+ 2·536	0·00	2	—22 33 32·50	+ 5·15
64	η ^a Pictoris.....	4·9	...	...	5 1 24	+ 1·545	0·05	1	—49 46 13·00	+ 5·09
65	β Orionis.....	1·0	0·00	5	5 7 54·43	+ 2·879	0·00	13	— 8 21 50·01	+ 4·52
66	η Tauri	5·2	0·93	2	5 10 59·28	+ 3·600	0·93	2	+21 57 1·26	+ 4·16
67	ο Columbae	5·0	0·08	1	5 12 30·60	+ 2·155	0·07	2	—35 1 55·33	+ 3·81
68	θ Doradus	4·8	0·07	1	5 13 52·08	— 0·055	0·07	1	—67 20 27·21	+ 4·01
69	β Tauri	1·9	0·00	1	5 17 34·23	+ 3·787	0·00	7	+28 29 13·92	+ 3·50
70	κ Pictoris	6·4	0·08	1	5 19 49·83	+ 1·100	0·08	1	—56 15 53·72	+ 3·49
71	θ Pictoris (1st Star)	7½	0·10	1	5 21 34·93	+ 1·358	0·10	1	—52 25 51·96	+ 3·34
72	θ Pictoris (2nd Star)	6½	0·04	2	5 21 38·32	+ 1·358	0·04	2	—52 26 16·34	+ 3·34
73	δ Orionis	Var.	0·00	4	5 24 57·47	+ 3·061	0·00	6	— 0 24 15·40	+ 3·04
74	B.A.C. 1756	5·3	0·09	3	5 28 12·68	+ 2·015	0·09	3	—38 36 40·70	+ 2·77
75	ε Orionis	1·8	0·00	3	5 29 12·73	+ 3·040	0·00	10	— 1 17 35·04	+ 2·68
76	ζ Tauri	3·0	0·03	2	5 29 24·08	+ 3·582	0·03	2	+21 3 17·00	+ 2·64
77	α Columbae	2·7	0·00	5	5 34 39·16	+ 2·172	0·00	12	—34 8 58·22	+ 2·16
78	γ Mensae	5·0	0·08	2	5 37 21·91	— 2·442	0·06	4	—76 26 13·73	+ 2·22
79	μ Columbae	5·4	0·04	1	5 40 52·02	+ 2·228	0·04	1	—32 21 39·75	+ 1·67
80	B.A.C. 1855	5·1	0·07	3	5 42 38·08	+ 1·660	0·07	3	—46 38 57·89	+ 1·52
81	β Pictoris	3·9	0·12	1	5 44 0·98	+ 1·418	0·12	1	—51 7 4·06	+ 1·49
82	δ Doradus	4·5	0·10	1	5 44 31·96	+ 0·104	0·10	1	—65 47 14·34	+ 1·33
83	χ ¹ Orionis	4·7	0·86	2	5 46 12·74	+ 3·549	0·86	2	+20 14 50·55	+ 1·10
84	α Orionis	Var.	0·00	5	5 47 42·07	+ 3·246	0·00	11	+ 7 22 42·08	+ 1·09
85	B.A.C. 1890	4·8	0·08	1	5 48 46·04	+ 1·354	0·08	1	—52 8 30·35	+ 0·87
86	ε Doradus	5·0	0·08	2	5 50 2·08	— 0·065	0·08	2	—66 56 8·02	+ 0·87
87	B.A.C. 1933	4·0	0·06	2	5 54 55·39	+ 1·833	0·06	2	—42 49 28·23	+ 0·44
88	ν Orionis	4·4	0·00	1	5 59 41·60	+ 3·425	0·00	3	+14 46 52·58	0·00
89	η Geminorum.....	Var.	0·41	5	6 6 32·90	+ 3·622	0·48	6	+22 32 35·95	— 0·59
90	μ Geminorum.....	3·2	0·00	3	6 14 36·66	+ 3·631	0·00	15	+22 34 51·38	— 1·39

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1862°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1862°o.	Annual Variation 1864°o.
91	α Argûs	1·00	0·00	11	h m s 6 20 53·31	+ 1·330	0·00	10	—52 37 16·43	— 1·83
92	Z Puppis	5½	0·04	2	6 26 25·41	+ 1·481	0·04	2	—50 8 34·30	— 2·31
93	γ Geminorum ...	2·00	0·00	3	6 29 44·37	+ 3·467	0·00	7	+16 30 48·86	— 2·64
94	α Canis Majoris..	1·4	0·00	22	6 39 3·91	+ 2·644	0·00	21	—16 31 45·32	— 4·61
95	B.A.C. 2252	4·9	...	...	6 45 51	+ 2·181	0·03	1	—34 12 20·43	— 3·99
96	α Pictoris	3·3	0·06	2	6 46 46·36	+ 0·621	0·06	3	—61 47 36·15	— 3·89
97	B Carinæ	4·4	0·06	3	6 46 51·49	+ 1·305	0·06	3	—53 27 43·12	— 4·08
98	ϵ Canis Majoris..	1·5	0·00	5	6 53 12·12	+ 2·356	0·00	12	—28 47 10·61	— 4·60
99	ζ Geminorum ...	Var.	0·93	2	6 55 55·33	+ 3·563	0·47	5	+20 46 9·38	— 4·85
100	γ Canis Majoris..	4·1	0·00	1	6 57 31·02	+ 2·713	0·00	3	—15 25 53·08	— 4·99
101	25 Canis Majoris	1·9	0·08	1	7 2 46·71	+ 2·438	0·06	2	—26 10 34·71	— 5·43
102	A Puppis	4·9	0·00	3	7 4 13·12	+ 2·015	0·08	4	—39 26 9·14	— 5·55
103	E Puppis	5·5	0·05	2	7 7 41·68	+ 1·983	0·05	2	—40 16 0·97	— 5·84
104	I Puppis	4·5	0·00	1	7 8 37·70	+ 1·724	0·09	1	—46 31 50·29	— 5·92
105	27 Canis Majoris.	4·5	0·08	2	7 8 37·73	+ 2·444	0·08	2	—26 7 2·34	— 5·87
106	λ Geminorum ...	3·6	...	...	7 10 10	+ 3·453	0·11	2	+16 47 9·60	— 6·09
107	δ Geminorum ...	3·7	...	...	7 11 53	+ 3·589	0·00	5	+22 13 58·69	— 6·19
108	π Argûs.....	2·5	0·08	2	7 12 16·21	+ 2·119	0·08	2	—36 51 4·84	— 6·22
109	F Puppis	5·3	...	...	7 13 51	+ 2·047	0·05	1	—38 57 36·41	— 6·36
110	δ Volantis.....	3·9	0·07	2	7 16 53·24	— 0·010	0·07	2	—67 42 15·29	— 6·60
111	ϵ Geminorum ...	4·0	0·04	1	7 17 9·14	+ 3·735	0·04	1	+28 4 6·85	— 6·71
112	31 Canis Majoris.	2·4	0·06	1	7 18 38·44	+ 2·371	0·06	1	—29 2 9·11	— 6·74
113	B.A.C. 2478	6·1	0·07	2	7 23 45·37	+ 2·317	0·07	2	—31 10 22·20	— 7·16
114	σ Argûs.....	3·0	0·08	3	7 24 51·25	+ 1·898	0·08	3	—43 1 25·77	— 7·08
115	B.A.C. 2484	4·7	0·06	1	7 25 20·68	+ 2·334	0·06	1	—30 40 29·06	— 7·30
116	68 Geminorum...	5·0	0·93	1	7 25 43·89	+ 3·429	0·93	1	+16 7 14·37	— 7·34
117	ν Geminorum ...	4·2	0·12	1	7 27 24·85	+ 3·707	0·12	2	+27 11 55·93	— 7·58
118	g Puppis	7·0	0·10	1	7 28 47·90	+ 2·473	0·10	1	—25 50 1·76	— 7·58
119	α Canis Minoris..	0·5	0·00	10	7 32 4·61	+ 3·145	0·00	15	+ 5 34 32·56	— 8·87
120	κ Geminorum ...	3·6	0·19	1	7 36 6·62	+ 3·631	0·19	5	+24 43 32·46	— 8·23

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Tauri—continued.</i>				B.A.C. 1483.			
July 2	G	^h 4 ^m 28 ^s 3.76	[°] 73 ['] 46 ["] 9.01	Oct. 2	IF	^h 4 ^m 41 ^s 17.84	[°] 129 ['] 36 ["] 20.09
5	G	3.78	8.73	<i>δ Tauri.</i>			
6	CF	3.68	8.92	Dec. 23			
9	CF	...	7.32	G	4 43 21.85	71 23 47.15	
Sept. 3	G	...	10.08	<i>ϵ Aurigæ.</i>			
4	IF	...	9.27	Jan. 2	CF	4 48 4.54	57 3 18.78
Oct. 2	IF	3.69	8.51	Oct. 1	CF	4.59	15.70
Nov. 25	CF	...	9.39			4 48 4.57	57 3 17.24
		4 28 3.75	73 46 8.70	<i>ζ Tauri.</i>			
B.A.C. 1454.				Oct. 1	CF	4 54 54.69	68 36 32.46
Aug. 25	G	4 33 15.66	171 53 6.47	2	IF	54.54	32.25
26	G	15.66	9.19	Dec. 23	G	54.57	34.15
31	G	...	7.77			4 54 54.60	68 36 32.95
		4 33 15.66	171 53 7.81	<i>η Tauri.</i>			
B.A.C. 1454 S.P.				Oct. 1	CF	4 59 42.27	69 45 56.36
Aug. 25	G	4 33 15.35	171 53 9.97	2	IF	42.14	56.13
26	G	15.52	10.23			4 59 42.21	69 45 56.25
		4 33 15.44	171 53 10.10	<i>θ Orionis.</i>			
<i>τ Tauri.</i>				Nov. 25	CF	5 1 51.68	74 34 51.54
Jan. 1	T	...	67 18 31.76	26	G	51.65	50.99
2	CF	4 34 1.59	35.00			5 1 51.67	74 34 51.27
28	CF	1.51	31.67				
Sept. 3	G	1.52	34.77				
		4 34 1.54	67 18 33.30				
<i>β Cæli.</i>							
Oct. 2	IF	4 37 12.99	127 24 48.62				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Orionis.				β Orionis—continued.			
Jan. 7	T	^h 5 ^m 7 ^s 57.26	98° 21' 44".68	June 8	G	...	98° 21' 46".51
8	T	57.26	45.01	10	G	...	45.38
10	T	...	44.60	11	G	...	44.69
12	T	57.30	45.05	12	G	...	44.46
13	T	...	44.96	21	G	...	45.50
14	CF	57.38	43.40	28	CF	...	45.09
16	CF	57.26	45.16	29	G	5 7 57.32	44.92
20	G	...	43.88	30	CF	...	44.81
21	CF	57.35	42.42	July 2	G	57.33	44.78
23	CF	57.39	43.09	3	CF	...	44.01
24	G	57.25	44.21	5	G	57.32	44.75
26	CF	57.31	44.30	6	CF	57.28	44.28
27	G	57.29	44.96	7	IF	...	44.95
28	CF	57.33	44.05	8	G	57.32	45.26
30	CF	57.26	45.24	9	CF	...	43.97
31	G	...	44.70	12	CF	...	44.79
Feb. 3	IF	57.30	43.32	13	CF	...	45.70
6	IF	...	44.19	16	CF	...	44.22
10	G	...	46.49	Sept. 4	IF	...	46.56
13	G	57.27	44.06	Oct. 1	CF	...	46.33
17	G	57.32	45.15	2	IF	57.30	44.94
18	IF	57.34	44.29	Nov. 25	CF	...	43.82
19	CF	57.35	43.19	26	G	...	45.04
20	IF	57.21	44.53	Dec. 24	CF	57.46	44.77
21	G	57.32	46.17			5 7 57.31	98 21 44.69
25	G	57.34	44.95	β Tauri.			
26	CF	57.39	42.90	Jan. 2	CF	...	61 30 40.38
27	IF	57.23	43.48	30	CF	5 17 38.05	38.83
28	G	57.32	45.39	Aug. 25	G	...	43.88
Mar. 12	G	57.30	44.00	Dec. 23	G	...	41.18
13	CF	57.26	44.73	24	CF	37.99	42.73
14	IF	57.27	44.50			5 17 38.02	61 30 41.40
16	G	57.30	45.13				
17	CF	...	44.96				
18	IF	57.27	44.70				
23	G	...	45.28				
24	CF	57.33	45.46				
Apr. 20	T	...	44.17				
23	T	57.28	44.94				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
115 Tauri.				δ Orionis—continued.			
Nov. 25	CF	^h 5 ^m 19 ^s 10.78	72° 9' 31".17	Feb. 26	CF	^h 5 ^m 25 ^s 0.57	90° 24' 10".70
26	G	10.79	32.45	27	IF	0.56	12.26
		5 19 10.79	72 9 31.81	28	G	0.51	12.37
δ Orionis.				Mar. 12	G	0.56	12.14
Jan. 5	T	...	90 24 11.68	13	CF	0.56	11.63
6	T	...	12.69	14	IF	0.47	11.01
7	T	5 25 0.53	12.05	16	G	0.42	12.63
8	T	0.46	12.21	17	CF	...	12.02
9	T	...	12.54	18	IF	0.46	11.93
12	T	0.53	11.30	23	G	...	13.20
13	T	...	12.00	24	CF	0.53	12.66
14	CF	0.55	10.50	June 28	G	...	13.11
15	G	...	11.21	29	G	0.52	11.03
16	CF	0.52	12.41	July 5	G	0.56	11.09
17	G	...	12.03	6	CF	0.49	11.46
20	G	...	10.51	8	G	0.54	13.19
21	CF	0.63	9.58	12	CF	...	12.17
23	CF	0.52	10.03	13	CF	...	13.65
24	G	0.53	11.18	16	CF	...	11.82
26	CF	0.55	12.03	23	G	...	12.17
27	G	0.55	12.35	Dec. 23	G	...	12.14
28	CF	0.51	11.84	24	CF	0.50	11.57
30	CF	0.55	10.90			5 25 0.53	90 24 11.72
31	G	...	11.63	B.A.C. 1756.			
Feb. 3	IF	0.51	11.04	Oct. 2	IF	5 28 14.82	128 36 33.23
6	IF	...	10.47	ϵ Orionis.			
10	G	0.54	13.11	Dec. 23	G	...	91 17 31.51
13	G	0.53	10.70	24	CF	5 29 15.67	30.64
17	G	0.57	11.07			5 29 15.67	91 17 31.08
18	IF	0.50	11.40				
19	CF	0.55	11.03				
20	IF	0.51	8.83				
21	G	0.56	12.74				
25	G	0.55	12.41				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Tauri.				α Columbae—continued.			
Jan. 2	CF	^h 5 ^m 29 ^s 27.62	68° 56' 34".05	Feb. 26	CF	^h 5 ^m 34 ^s 41.23	124° 8' 55".72
30	CF	27.57	35.85	27	IF	41.33	57.36
Sept. 4	IF	27.62	39.16	28	G	41.26	56.87
		5 29 27.60	68 56 36.35	Mar. 12	G	41.39	55.77
α Columbae.				13	CF	41.32	55.35
Jan. 2	CF	...	124 8 55.87	14	IF	41.41	56.21
5	T	...	55.82	16	G	41.39	56.37
6	T	...	55.82	17	CF	...	55.94
7	T	5 34 41.26	56.09	18	IF	41.38	57.55
8	T	41.45	56.05	23	G	...	56.31
9	T	...	56.45	24	CF	41.30	56.12
12	T	41.34	55.99	Apr. 8	T	...	56.06
13	T	...	56.35	20	T	...	55.78
14	CF	41.16	56.60	23	T	41.33	56.13
15	G	...	56.37	June 28	G	...	56.04
16	CF	41.28	55.42	29	G	41.36	56.12
17	G	...	56.28	30	CF	...	55.89
20	G	...	55.36	July 2	G	41.28	56.72
21	CF	41.15	54.15	3	CF	...	56.08
23	CF	41.20	54.70	5	G	41.27	56.05
24	G	41.25	55.78	6	CF	41.34	56.05
26	CF	41.20	53.66	8	G	41.27	56.20
27	G	41.35	55.78	9	CF	...	56.04
28	CF	41.36	55.22	12	CF	...	56.27
31	G	...	55.54	16	CF	...	56.15
Feb. 3	IF	41.23	55.31	23	G	...	56.84
6	IF	...	55.56	27	IF	...	56.03
10	G	41.24	56.82	Nov. 26	G	...	56.35
13	G	41.27	58.29	Dec. 23	G	...	55.90
17	G	41.29	56.79	24	CF	41.27	53.07
19	CF	41.28	55.56			5 34 41.29	124 8 55.93
20	IF	41.25	55.28	μ Columbae.			
21	G	41.27	54.90	Oct. 2	IF	5 40 54.54	122 21 38.09
25	G	41.23	54.87				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
χ^1 Orionis.				α Orionis—continued.			
Jan. 2	CF	^h 5 ^m 46 ^s 16.38	69° 45' 7".52	Feb. 21	G	^h 5 ^m 47 ^s 45.37	82° 37' 16".84
Feb. 26	OF	16.43	8.17	25	G	45.36	17.48
Oct. 2	IF	16.27	7.28	28	G	45.35	17.45
Dec. 23	G	16.33	10.50	Mar. 12	G	45.24	16.53
24	CF	16.36	9.60	13	CF	45.34	16.25
		^h 5 ^m 46 ^s 16.35	69 45 8.62	14	IF	45.22	16.64
α Orionis.				16	G	45.28	17.00
Jan. 6	T	...	82 37 16.92	17	CF	...	16.49
7	T	5 47 45.35	16.69	18	IF	45.28	17.57
8	T	45.36	16.96	23	G	...	17.60
9	T	...	16.73	24	CF	45.36	17.86
12	T	45.29	16.70	Apr. 8	T	...	17.12
14	CF	45.30	15.23	23	T	45.27	16.88
15	G	...	17.39	June 28	G	...	17.33
16	CF	45.39	15.90	29	G	45.30	17.49
17	G	...	17.24	30	CF	...	16.23
20	G	...	14.76	July 2	G	45.32	17.31
21	CF	45.39	15.05	5	G	45.30	16.83
23	CF	45.42	15.86	6	CF	45.37	16.92
24	G	45.36	16.97	7	IF	...	16.85
26	CF	45.39	15.71	8	G	45.30	17.48
27	G	45.32	17.35	9	CF	...	15.84
28	CF	45.34	16.40	12	CF	...	16.90
30	CF	45.29	15.18	13	CF	...	18.65
31	G	...	15.33	16	CF	...	17.19
Feb. 3	IF	45.39	17.39	27	IF	...	16.91
6	IF	...	16.97	29	CF	...	16.57
10	G	45.34	17.90	31	CF	...	16.68
13	G	45.38	15.91	Sept. 5	G	...	18.11
16	CF	...	18.04			^h 5 ^m 47 ^s 45.33	82 37 16.74
17	G	45.37	15.93	χ^4 Orionis.			
18	IF	45.30	15.84	Dec. 23	G	5 55 47.09	69 51 42.10
19	CF	45.18	16.17	24	CF	47.26	41.65
20	IF	45.35	16.05			^h 5 ^m 55 ^s 47.18	69 51 41.88

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ν Orionis.				α Argus—continued.			
Oct. 2	IF	$\begin{smallmatrix} h & m & s \\ 5 & 59 & 45\cdot05 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 75 & 13 & 5\cdot53 \end{smallmatrix}$	Jan. 10	T	$\begin{smallmatrix} h & m & s \\ & & \dots \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 142 & 37 & 17\cdot31 \end{smallmatrix}$
η Geminorum.				12	T	6 20 54 ⁵³	18 ⁰³
Jan. 30	CF	6 6 36 ⁴⁴	67 27 22 ⁴⁹	14	CF	54 ²⁶	18 ⁸³
Feb. 26	CF	36 ²⁶	24 ⁹⁵	15	G	54 ⁶⁶	19 ⁵⁹
Oct. 2	IF	36 ⁵¹	23 ⁶⁵	16	CF	54 ⁵⁵	19 ⁴⁸
Nov. 26	G	36 ⁵⁷	25 ⁴¹	17	G	54 ⁶⁹	18 ⁹⁹
		6 6 36 ⁴⁵	67 27 24 ¹³	21	CF	54 ³⁰	18 ⁶⁹
μ Geminorum.				23	CF	54 ⁵⁸	18 ⁰⁶
Jan. 30	CF	6 14 40 ³⁵	67 25 (5 ⁹⁴)	24	G	54 ⁶⁵	17 ⁵³
Mar. 27	CF	...	10 ⁵⁹	26	CF	54 ³⁶	18 ⁸⁵
28	IF	...	10 ⁴⁰	27	G	54 ⁵⁹	18 ³⁸
Oct. 2	IF	40 ³⁴	9 ⁹⁶	28	CF	54 ⁶⁴	18 ⁹⁵
Nov. 26	G	...	11 ⁶¹	30	CF	54 ⁵²	20 ⁰⁶
27	CF	...	10 ⁵⁰	Feb. 3	IF	54 ⁵⁶	18 ⁹⁴
Dec. 24	CF	40 ³⁶	9 ¹⁵	10	G	54 ⁵¹	19 ¹⁹
		6 14 40 ³⁵	67 25 10 ³⁷	13	G	54 ⁶⁵	17 ¹⁰
α Argus.				16	CF	54 ³⁵	18 ⁵⁷
Jan. 6	T	6 20 54 ²²	142 37 17 ⁵¹	17	G	54 ⁴⁷	17 ⁷¹
7	T	54 ⁵⁷	18 ⁵⁹	18	IF	54 ⁴⁸	18 ³⁰
8	T	54 ⁴²	16 ⁴⁶	19	CF	54 ⁶²	17 ⁵⁹
9	T	54 ⁵⁶	18 ⁰³	20	IF	54 ⁴³	18 ⁸⁶
				21	G	54 ⁵²	18 ⁵⁵
				25	G	54 ⁶⁰	18 ²¹
				28	G	54 ⁵¹	18 ⁶³
				Mar. 12	G	54 ⁷²	17 ⁶²
				13	CF	54 ⁶⁶	16 ⁸²
				14	IF	54 ⁷³	18 ¹⁷
				16	G	54 ⁶⁷	17 ¹²
				17	CF	54 ⁴⁹	18 ⁰⁸
				18	IF	54 ⁶¹	19 ³⁶
				23	G	54 ⁶⁷	18 ⁴³
				24	CF	54 ⁶⁴	16 ⁶⁶
				Apr. 8	T	54 ⁶⁶	19 ¹²
				23	T	54 ⁶⁴	18 ⁴⁹
				Oct. 2	IF	54 ⁷⁰	17 ⁹⁰
						6 20 54 ⁵⁵	142 37 18 ²⁸

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Geminorum.				α Canis Majoris—continued.			
Jan. 4	G	^h ^m ^s ...	73° 29' 14".86	Feb. 1	CF	^h ^m ^s ...	106° 31' 49".76
Mar. 27	CF	...	14.16	3	IF	6 39 6.57	49.06
Oct. 2	IF	6 29 47.87	13.65	10	G	6.52	51.42
Nov. 27	CF	...	12.28	13	G	6.53	50.44
Dec. 24	CF	47.87	14.69	16	CF	6.40	50.75
25	W	...	12.56	17	G	6.42	50.81
		6 29 47.87	73 29 13.70	18	IF	6.67	49.85
ξ Geminorum.				19	CF	6.44	48.41
Feb. 28	G	6 37 35.97	76 57 35.68	20	IF	6.52	49.20
α Canis Majoris.				21	G	6.51	51.19
Jan. 5	T	...	106 31 50.47	25	G	6.54	50.92
6	T	6 39 6.53	51.15	26	CF	6.43	49.41
7	T	6.61	...	27	IF	6.54	49.69
8	T	6.55	50.46	Mar. 12	G	6.50	49.97
9	T	6.60	50.49	13	CF	6.45	49.51
10	T	...	49.32	14	IF	6.40	49.17
12	T	...	51.41	16	G	6.44	50.70
14	CF	6.60	48.92	17	CF	6.34	51.65
15	G	6.50	50.98	18	IF	6.58	49.92
16	CF	6.58	49.30	23	G	6.53	51.55
17	G	6.57	51.46	24	CF	6.43	49.58
21	CF	6.63	48.18	Apr. 8	T	6.51	50.61
23	CF	6.40	49.22	23	T	6.54	49.49
24	G	6.47	50.62	July 5	G	6.50	49.94
26	CF	6.62	49.04	6	CF	6.65	49.87
27	G	6.46	50.58	7	IF	...	49.37
28	CF	6.55	49.20	8	G	6.48	50.10
30	CF	6.49	48.40	9	CF	6.59	49.57
				10	IF	...	50.23
				12	G	...	51.08
				13	CF	6.53	49.82
				15	IF	...	49.37
				16	CF	6.49	50.30
				24	CF	...	49.18
				26	G	...	50.39

Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
α Canis Majoris—continued.				ϵ Canis Majoris—continued.			
July 27	G	^h ^m ^s ...	106° 31' 50" 00	Feb. 21	G	^h ^m ^s 6 53 14' 41	118° 47' 16" 08
30	IF	...	50' 22	25	G	14' 47	16' 01
31	CF	...	50' 15	26	CF	14' 37	14' 87
Aug. 2	G	...	49' 86	27	IF	14' 34	15' 51
4	G	6 39 6' 60	50' 82	Mar. 3	G	...	16' 06
10	CF	...	50' 64	12	G	14' 46	16' 08
11	CF	...	49' 94	13	CF	...	14' 26
		6 39 6' 52	106 31 50' 05	14	IF	14' 53	15' 92
ϵ Canis Majoris.				16	G	14' 47	15' 26
Jan. 5	CF	...	118 47 15' 60	17	CF	...	15' 26
6	T	...	15' 98	18	IF	14' 58	13' 64
7	T	6 53 14' 53	15' 46	23	G	...	15' 35
8	T	14' 43	15' 14	24	CF	14' 45	13' 88
9	T	...	14' 83	Apr. 8	T	...	15' 87
12	T	14' 49	15' 02	23	T	14' 52	15' 15
14	CF	14' 57	14' 20	July 2	G	...	16' 70
15	G	...	16' 15	3	G	14' 48	15' 19
16	CF	14' 51	15' 84	5	G	14' 47	15' 39
17	G	...	15' 88	6	CF	14' 55	14' 45
21	CF	14' 43	13' 94	8	G	14' 48	15' 23
23	CF	14' 37	14' 27	9	G	...	15' 44
24	G	14' 60	13' 89	10	G	...	15' 88
26	CF	14' 53	14' 04	12	G	...	16' 12
27	G	14' 39	15' 98	13	G	...	15' 50
28	CF	14' 46	14' 29	15	G	...	15' 26
30	CF	14' 44	14' 41	16	G	...	15' 67
Feb. 3	IF	14' 50	15' 87	23	G	...	15' 24
10	G	14' 47	17' 38	27	G	...	15' 41
13	G	14' 50	15' 79	30	G	...	15' 35
16	CF	...	13' 89	31	G	...	15' 57
17	G	14' 41	15' 56	Aug. 2	G	...	15' 90
18	IF	14' 51	13' 05	3	G	...	16' 50
19	CF	14' 48	15' 30	4	G	14' 57	15' 72
20	IF	14' 48	13' 83	10	G	...	16' 71
				11	G	...	15' 74
				25	G	...	15' 64
						6 53 14' 48	118 47 15' 30

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Geminorum.				α Canis Minoris.			
Feb. 28	G	$6^h 55^m 58^s.87$	$69^\circ 13' 56''.99$	Mar. 1	CF	$8^h \dots^m \dots^s$	$84^\circ 25' 36''.02$
Mar. 27	CF	...	55.59	3	G	...	36.63
28	IF	...	55.27	Apr. 8	T	$7^h 32^m 7.72^s$	36.49
Nov. 27	CF	59.01	54.77	25	T	...	36.07
28	G	...	54.75	July 21	OF	...	35.94
		$6 55 58.94$	$69 13 55.47$	23	CF	...	35.86
λ Geminorum.				24	CF	...	36.60
Jan. 4	G	...	$73 12 56.38$	30	IF	...	36.28
5	CF	$7 10 13.10$	54.31	Aug. 2	G	...	35.91
Mar. 27	CF	...	57.52	3	CF	...	35.74
28	IF	...	53.75	4	G	7.78	36.19
Nov. 27	OF	13.16	55.26	10	G	7.81	36.32
28	G	...	56.46	11	CF	...	36.03
		$7 10 13.13$	$73 12 55.61$	16	G	...	37.21
δ Geminorum.				18	CF	...	35.71
Mar. 1	CF	...	$67 46 7.86$	25	IF	...	35.79
Dec. 26	W	...	8.21	Nov. 28	G	...	37.56
		$7 11 56$	$67 46 8.04$	Dec. 25	W	7.89	...
68 Geminorum.				26	W	...	37.20
Feb. 28	G	$7 25 47.31$	$73 52 56.44$			$7 32 7.80$	$84 25 36.31$
Mar. 1	CF	...	53.31	κ Geminorum.			
Dec. 25	W	47.46	53.89	Jan. 4	G	...	$65 16 35.73$
26	W	...	53.79	5	CF	$7 36 10.35$	34.95
		$7 25 47.39$	$73 52 54.36$			$7 36 10.35$	$65 16 35.34$
β Geminorum.				β Geminorum.			
Dec. 27	CF	$7 36 56$	$61 38 44.69$				

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>g Geminorum.</i>				<i>z Canori.</i>			
Feb. 2	W	^h 7 ^m 38 ^s 11.40	71° 9' 31".54	Jan. 5	CF	^h 8 ^m 4 ^s 21.10	71° 56' 30".83
28	G	11.37	32.83	6	G	21.21	30.15
Mar. 1	CF	...	29.98	Mar. 28	IF	...	31.14
Nov. 28	G	...	30.48	29	G	...	30.76
29	W	11.28	29.29			8 4 21.16	71 56 30.72
Dec. 25	W	11.56	31.76	<i>d¹ Canori.</i>			
		7 38 11.40	71 9 30.98	Jan. 5	CF	8 15 31.00	71 13 49.40
<i>1 Canori.</i>				6	G	30.94	48.39
Feb. 2	W	7 49 12.59	73 50 47.36			8 15 30.97	71 13 48.90
<i>3 Canori.</i>				<i>A Octantis.</i>			
Apr. 25	G	7 52 56	72 19 6.67	Feb. 17	G	...	178 27 57.31
<i>6 Canori.</i>				21	G	...	57.42
Jan. 5	CF	...	61 49 27.45	25	G	...	56.20
Dec. 27	CF	...	28.73	28	G	...	58.11
		7 55 6	61 49 28.09	Mar. 3	G	...	56.94
<i>μ Canori.</i>				23	G	...	56.43
Mar. 28	IF	...	68 1 22.58	Apr. 27	G	8 18 23.85	56.68
29	G	...	23.57	28	G	24.03	56.66
Nov. 28	G	...	22.39	29	G	23.95	56.91
		7 59 42	68 1 22.85	30	G	19.97	57.44
<i>12 Canori.</i>						8 18 22.95	178 27 57.01
Dec. 27	OF	8 1 3.05	75 57 46.60	<i>A Octantis S.P.</i>			
				Apr. 27	G	8 18 22.13	178 27 59.47
				28	G	23.63	57.84
				29	G	23.39	57.38
						8 18 23.05	178 27 58.23

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
29 Cancri.				ε Hydræ.			
Nov. 29	W	^h 8 ^m 20 ^s 58.40	75° 20' 15".95	Jan. 6	G	^h ... ^m ... ^s ...	83° 4' 51".14
Dec. 27	CF	58.59	17.58	Feb. 2	W	...	50.80
		8 20 58.49	75 20 16.77	Mar. 29	G	...	50.41
				Nov. 29	W	...	50.63
θ Cancri.						8 39 31	83 4 50.75
Mar. 1	CF	...	71 26 40.56	60 Cancri.			
2	W	8 23 46.81	41.98	Apr. 25	G	...	77 51 8.73
		8 23 46.81	71 26 41.27	26	G	8 48 26.57	7.83
η Cancri.						8 48 26.57	77 51 8.28
Jan. 6	G	...	69 5 45.84	α Cancri.			
Feb. 2	W	...	44.73	Jan. 6	G	8 50 59.42	77 36 49.72
Apr. 25	G	...	44.71	Feb. 2	W	59.46	49.75
Nov. 28	G	...	45.91	Mar. 29	G	...	51.00
Dec. 27	CF	...	42.84	Dec. 27	CF	59.54	52.33
		8 24 47	69 5 44.81	28	G	59.43	48.91
δ Cancri.						8 50 59.46	77 36 50.34
Feb. 2	W	8 36 53.70	71 20 40.02	κ Cancri.			
3	CF	...	39.48	Jan. 6	G	9 0 19.38	78 46 57.37
Mar. 1	CF	...	39.59	Mar. 2	W	19.44	56.79
2	W	53.74	39.97	3	G	19.51	56.24
Apr. 25	G	...	39.43	29	G	...	57.02
26	G	53.69	39.83	Dec. 27	CF	19.47	55.47
		8 36 53.71	71 20 39.72	28	G	19.45	55.17
						9 0 19.45	78 46 56.34

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
83 Canori.				α Hydræ.			
Feb. 3	CF	^h ^m ^s ...	71° 42' 56" 31	Feb. 10	G	^h ^m ^s 9 20 51' 34	98° 3' 59" 29
Mar. 2	W	...	56° 09	13	G	...	58° 77
Apr. 26	G	...	55° 15	18	IF	51° 31	57° 55
Dec. 28	G	...	56° 08	20	IF	51° 45	57° 77
		9 11 20	71 42 55' 91	21	G	51° 32	59° 20
				25	G	51° 31	58° 73
				28	G	51° 30	58° 26
				Mar. 12	G	51° 26	59° 69
				13	CF	51° 26	59° 53
				14	IF	51° 30	60° 43
				16	G	51° 34	59° 30
				17	CF	...	58° 58
				18	IF	51° 29	58° 59
				23	G	...	59° 21
				Apr. 1	G	...	59° 22
				21	T	...	58° 90
				24	T	...	59° 26
				25	T	...	59° 46
				26	G	...	58° 81
				27	W	...	58° 18
				July 31	CF	...	58° 25
				Aug. 1	IF	51° 29	58° 50
				3	CF	...	58° 02
				4	IF	...	58° 93
				5	IF	...	57° 84
				23	G	...	58° 52
				25	G	...	58° 73
				28	G	...	57° 94
				30	G	...	58° 06
				Sept. 3	G	...	57° 84
				4	G	...	58° 70
				6	G	...	58° 46
				7	G	...	58° 60
				14	G	...	59° 15
				15	G	...	58° 40
				Nov. 1	G	...	59° 32
						9 20 51' 31	98 3 58' 72
ζ Argûs.							
Apr. 27	W	9 13 25' 16	148 42 4' 97				
July 24	IF	25' 21	4' 27				
31	CF	25' 24	4' 97				
Aug. 1	IF	25' 17	4' 39				
4	IF	...	4' 80				
5	IF	25' 27	3' 87				
14	IF	...	4' 19				
		9 13 25' 21	148 42 4' 49				
ζ Octantis.							
May 13	G	...	175 6 32' 22				
18	G	9 15 54' 08	32' 75				
		9 15 54' 08	175 6 32' 49				
ζ Octantis S.P.							
May 13	G	9 15 52' 05	...				
18	G	53' 46	...				
		9 15 52' 76	...				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ω Leonis.				π Leonis—continued.			
Mar. 2	W	^h 9 ^m 21 ^s 7.02	80° 20' 54.53	Apr. 27	W	...	81° 17' 57.62
3	G	7.12	53.39	28	G	...	57.92
		9 21 7.07	80 20 53.96	May 25	W	...	60.06
δ Leonis.				Dec. 28	G	...	59.09
Apr. 26	G	9 24 36.82	79 40 54.62			9 52 58	81 17 58.53
27	W	36.77	54.36	Λ Leonis.			
		9 24 36.80	79 40 54.49	Mar. 3	G	10 0 37.89	79 19 60.39
σ Leonis.				4	CF	...	56.27
Jan. 8	G	9 33 50.17	79 29 9.15			10 0 37.89	79 19 58.33
Apr. 26	G	50.11	10.21	α Leonis.			
27	W	50.15	9.95	Jan. 8	G	...	77 21 50.65
		9 33 50.14	79 29 9.77	Feb. 4	G	...	51.45
ϵ Leonis.				5	CF	...	48.86
Dec. 28	G	9 38 4	65 35 47.21	Mar. 5	IF	...	51.41
ζ Sextantis.				Apr. 1	G	...	51.41
Dec. 28	G	9 43 22.28	85 0 58.58	27	W	...	50.66
π Leonis.				28	G	...	51.36
Jan. 8	G	...	81 17 57.38	June 30	CF	...	51.06
Mar. 3	G	...	59.11	July 2	G	...	52.37
4	CF	...	58.52	7	CF	...	51.96
				8	G	...	50.97
				9	CF	...	50.96
				10	IF	...	47.29
				11	CF	...	51.86
				13	CF	10 1 4.45	51.89
				16	CF	...	52.47
				24	IF	...	51.44

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
a Leonis—continued.				44 Leonis.			
Sept. 1	G	^h ^m ^s ...	77° 21' 51".72	Apr. 1	G	^h ^m ^s 10 18 1".84	80° 31' 11".29
3	G	...	52".13	30 Sextantis.			
4	G	...	52".68				
6	G	...	53".14				
14	G	...	52".72				
15	G	...	51".38				
17	G	...	51".76	Jan. 8	G	10 23 17".20	89 56 6".89
18	G	...	51".97	9	G	17".19	7".18
21	G	...	52".10			10 23 17".20	89 56 7".04
22	G	...	52".26				
23	G	...	50".58	p Leonis.			
24	G	...	52".74				
25	G	...	51".75				
30	G	...	52".07				
Nov. 1	G	...	51".15				
Dec. 28	G	...	51".07				
		10 1 4".45	77 21 51".49				
γ ¹ Leonis.							
Mar. 4	CF	...	69 27 59".26	48 Leonis.			
May 19	G	...	60".88				
20	G	...	57".92				
27	G	...	60".54				
28	G	...	58".57				
		10 12 25	69 27 59".43	May 25	W	10 27 39".10	82 20 31".19
43 Leonis.				26	CF	...	29".62
						10 27 39".10	82 20 30".41
						34 Sextantis.	
				May 25	W	10 35 32".99	85 42 6".83
				26	CF	...	5".30
Dec. 30	CF	33".25	7".97				
		10 35 33".12	85 42 6".70				

186 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
36 Sextantis.				ρ^1 Leonis.			
Jan. 8	G	$10^h 38^m 5^s.84$	$86^{\circ} 47' 31''.58$	Mar. 4	CF	$10^h 59^m ...$	$87^{\circ} 18' 6''.02$
9	G	5.87	31.39	5	IF	$10 59 54.91$	5.23
		$10 38 5.86$	$86 47 31.49$			$10 59 54.91$	$87 18 5.63$
η Argûs.				δ Leonis.			
Apr. 21	T	$10 39 45.17$	$148 57 53.27$	Jan. 9	G	$11 6 49$	$68 43 33.61$
24	T	45.12	53.19				
27	W	45.05	53.26				
July 11	CF	$...$	53.50	ϕ Leonis.			
		$10 39 45.11$	$148 57 53.31$	Feb. 5	CF	$11 9 41.80$	$92 54 10.82$
ι Leonis.				Apr. 1	G	41.90	10.26
Dec. 30	CF	$10 42.3$	$78 43 49.40$	28	G	$...$	12.26
55 Leonis.				29	W	41.90	10.53
Dec. 30	CF	$10 48 39.73$	$88 31 58.39$	May 26	CF	$...$	10.78
ϵ Leonis.				27	IF	$...$	10.28
Mar. 4	CF	$...$	$83 9 46.98$	Dec. 30	CF	41.70	10.59
5	IF	$10 53 38.53$	47.35			$11 9 41.83$	$92 54 10.79$
		$10 53 38.53$	$83 9 47.17$	δ Crateris.			
ρ^1 Leonis.				Jan. 9	G	$...$	$104 2 14.70$
Apr. 28	G	$...$	$91 44 50.61$	Apr. 24	T	$...$	14.04
29	W	$10 54 50.46$	51.46	29	W	$11 12 29.59$	$...$
		$10 54 50.46$	$91 44 51.04$	June 8	G	$...$	14.11
				11	G	$...$	14.04
				12	G	$...$	14.39
				July 8	G	$...$	14.70
				9	CF	$...$	14.40
				10	IF	$...$	14.16

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Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
δ Crateris—continued.				ϵ Corvi.			
July 13	CF	^h 11 ^m 12 ^s 29'60	104° 2' 14'68	June 24	CF	^h 12 ^m 3 ^s 5	111° 51' 26'00
16	CF	...	13'59	η Virginis.			
31	CF	...	13'98				
Aug. 1	IF	29'59	13'41	Mar. 7	IF	...	89 54 18'29
3	CF	...	12'31	Apr. 30	CF	...	19'16
		11 12 29'59	104 2 14'04			12 12 54	89 54 18'73
ϵ Leonis.				α^1 Crnois.			
Jan. 9	G	11 23 18'97	92 14 52'84	Apr. 23	T	12 19 0'15	152 20 19'37
Feb. 5	CF	... 18'88	52'26	24	T	0'07	20'38
Mar. 5	IF	18'96	...	29	W	0'17	21'32
		11 23 18'94	92 14 52'55	July 8	G	0'16	20'31
ν Leonis.				9	CF	0'20	20'93
Jan. 9	G	...	90 4 2'53	10	IF	0'10	...
10	W	...	2'17	13	CF	0'16	23'09
Mar. 5	IF	...	3'18	14	G	0'18	21'11
Apr. 1	G	...	3'15	16	CF	0'23	20'98
29	W	11 29 56'16	2'88	17	IF	...	21'27
30	CF	...	2'87	24	IF	0'15	24'95
May 26	CF	...	2'66	30	IF	...	24'05
27	IF	...	2'83	31	CF	0'22	21'32
Dec. 30	CF	...	3'89	Aug. 1	IF	0'13	22'67
		11 29 56'16	90 4 2'91	3	CF	0'22	20'40
B.A.C. 4006.				4	G	0'31	20'16
Apr. 29	W	11 44 2'12	94 34 17'07	5	IF	0'02	...
30	CF	...	14'87	10	CF	...	20'32
June 24	CF	2'21	17'18	11	CF	...	21'22
		11 44 2'17	94 34 16'37	12	IF	0'23	21'02
				28	IF	...	20'87
						12 19 0'17	152 20 21'35

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^2 Crucis.				β Corvi.			
Apr. 29	W	^{h m s} 12 19 0 ^h 91	152° 20' 23 ^s 65	Mar. 7	IF	^{h m s}	112° 38' 22 ^s 28
July 8	G	0 ^h 93	23 ^s 88	Apr. 24	T	...	18 ^s 05
9	CF	...	23 ^s 73	29	W	12 27 11 ^s 76	18 ^s 56
13	CF	...	25 ^s 15	June 24	CF	...	19 ^s 36
14	G	...	24 ^s 71	July 13	CF	11 ^s 74	19 ^s 41
16	CF	...	25 ^s 21	14	G	...	19 ^s 28
17	IF	...	26 ^s 39	16	CF	...	17 ^s 60
24	IF	...	28 ^s 92	17	IF	...	18 ^s 90
30	IF	...	27 ^s 62	Aug. 3	CF	...	17 ^s 19
31	CF	...	23 ^s 12	4	G	11 ^s 84	18 ^s 17
Aug. 1	IF	...	23 ^s 44	5	IF	...	17 ^s 71
3	CF	...	23 ^s 46	11	CF	...	18 ^s 22
4	G	...	23 ^s 05	19	IF	...	16 ^s 23
10	CF	...	28 ^s 84			12 27 11 ^s 78	112 38 18 ^s 54
11	CF	...	22 ^s 88	Lacaille 5235.			
12	IF	...	23 ^s 59	July 8	G	...	179 2 46 ^s 84
28	IF	...	25 ^s 49	9	CF	12 30 30 ^s 17	46 ^s 23
		12 19 0 ^h 92	152 20 24 ^s 01	10	G	30 ^s 29	45 ^s 45
γ Crucis.						12 30 30 ^s 23	179 2 46 ^s 17
Aug. 1	IF	12 23 35 ^s 16	146 20 42 ^s 66	Lacaille 5235 S.P.			
4	G	35 ^s 19	43 ^s 71	July 2	G	...	179 2 48 ^s 48
5	IF	35 ^s 11	44 ^s 21	9	G	12 30 30 ^s 32	47 ^s 77
11	CF	...	44 ^s 91			12 30 30 ^s 32	179 2 48 ^s 13
12	IF	35 ^s 24	40 ^s 39	χ Virginis.			
19	IF	35 ^s 17	43 ^s 96	Jan. 10	W	...	97 14 26 ^s 97
28	IF	...	47 ^s 23	Mar. 7	IF	12 32 10 ^s 63	26 ^s 75
Sept. 1	IF	35 ^s 25	44 ^s 32				
3	IF	35 ^s 28	43 ^s 21				
		12 23 35 ^s 20	146 20 43 ^s 84				
η Virginis.							
May 27	IF	...	98 41 43 ^s 49				
28	G	12 26 42 ^s 66	44 ^s 22				
		12 26 42 ^s 66	98 41 43 ^s 86				

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
χ Virginis—continued.				θ Virginis.			
Apr. 30	CF	^h ^m ^s ...	97° 14' 26".90	May 28	G	^h ^m ^s 13 2 51	94° 48' 23".34
May 27	IF	...	24.92	δ Virginis.			
28	G	12 23 10.65	26.70	May 28	G	13 10 16.73	99 49 23.53
		12 32 10.64	97 14 26.45	ϵ Virginis.			
β Crucis.				Apr. 4	G	13 11 15	107 32 51.39
July 24	IF	12 39 44.38	148 56 20.10	α Virginis.			
25	CF	44.48	19.89	Feb. 8	W	...	100 26 41.90
30	IF	...	19.91	9	CF	...	41.73
Aug. 1	IF	44.43	19.65	Mar. 7	IF	...	41.49
4	G	44.45	19.68	Apr. 4	G	...	42.67
5	IF	44.35	20.21	10	T	...	41.69
10	CF	...	21.91	11	T	...	41.72
11	CF	...	20.45	20	T	...	42.50
12	IF	44.35	19.73	21	T	...	41.65
15	IF	...	19.72	23	T	13 17 58.79	...
19	IF	44.29	19.80	May 23	T	...	41.78
28	IF	...	19.94	24	T	...	41.37
31	IF	...	19.15	25	T	...	42.26
		12 39 44.39	148 56 20.01	28	G	...	42.22
ψ Virginis.				July 8	G	...	41.78
Feb. 8	W	12 47 13.91	98 47 37.61	9	CF	...	40.44
Mar. 7	IF	13.95	40.12	10	IF	...	41.30
Apr. 30	CF	...	37.32	13	CF	58.80	40.78
June 24	CF	13.81	37.56	14	G	...	41.47
		12 47 13.89	98 47 38.15	24	IF	...	41.20
γ Virginis.				Aug. 10	G	...	42.38
Feb. 8	W	13 0 43.34	100 0 24.16	11	G	...	41.42
				12	IF	58.72	44.00
				17	G	...	41.71

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Virginis—continued.</i>				89 Virginis.			
Aug. 18	OF	^{h m s} ...	100° 26' 40".44	Feb. 8	W	^{h m s} 13 42 25".98	107° 26' 59".60
19	IF	...	40".37	9	CF	25".89	58".63
24	CF	...	41".79	May 30	G	25".91	60".93
26	IF	13 17 58".74	41".78			13 42 25".93	107 26 59".72
31	IF	...	41".97	<i>β Centauri.</i>			
Sept. 1	IF	...	40".85	July 24	IF	...	149 42 38".55
3	IF	...	40".93	25	CF	...	34".51
4	IF	...	40".73	30	IF	...	33".94
5	CF	...	40".72	Aug. 1	IF	13 54 11".03	33".55
Nov. 1	G	...	40".52	4	G	11".22	34".61
6	G	...	41".70	5	IF	11".20	34".28
9	G	...	40".93	10	G	11".07	33".93
13	G	...	40".65	12	IF	11".09	38".15
16	G	...	40".81	19	IF	11".13	35".91
17	G	...	42".48	25	IF	...	34".48
22	G	...	42".76	26	IF	11".23	33".68
23	G	...	41".45	29	G	...	34".74
24	G	...	41".56	31	G	10".99	34".56
25	G	...	40".57	Sept. 1	IF	11".18	34".18
		13 17 58".76	100 26 41".52	3	IF	11".30	34".37
<i>λ Virginis.</i>				4	IF	11".24	34".16
Mar. 7	IF	13 25 45".26	99 27 59".08			13 54 11".15	149 42 34".85
<i>ζ Virginis.</i>				<i>α Boötis.</i>			
Feb. 8	W	13 27 43	89 53 38".52	July 8	G	...	70 6 8.88
<i>85 Virginis.</i>				9	OF	...	8.87
Feb. 8	W	13 38 12".75	105 4 38".37	13	OF	14 9 24".78	8.07
9	CF	12".67	38".11	Aug. 4	G	24".84	9.07
		13 38 12".71	105 4 38".24	5	IF	...	10.22
				10	G	...	9.54

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Boötis—continued.</i>				<i>z Octantis.</i>			
Aug. 12	IF	^{h m s} 14 9 24·81	^{° ′ ″} 70° 6' 9·83	July 16	G	^{h m s} 14 24 48·26	^{° ′ ″} 177° 34' 43·92
19	IF	...	8·06	29	G	47·49	41·57
26	IF	24·90	10·24	30	G	47·65	41·87
28	IF	...	10·24	Aug. 1	G	48·84	43·00
29	G	...	10·96	2	G	48·60	42·21
31	G	...	8·36	3	G	48·66	42·22
Sept. 1	IF	...	9·17	4	G	48·95	43·11
3	IF	...	8·85			14 24 48·35	177 34 42·56
4	IF	...	9·76	<i>z Octantis S.P.</i>			
5	CF	...	9·61	July 16	G	14 24 48·25	177 34 45·57
Nov. 1	G	...	9·23	28	G	48·01	46·13
6	G	...	9·98	30	G	47·11	44·42
9	G	...	9·89	31	G	...	45·62
10	CF	...	10·74	Aug. 1	G	50·05	...
13	G	...	9·82	2	G	47·90	43·95
17	G	...	10·11	3	G	50·53	...
22	G	...	10·60	4	G	46·75	47·39
23	G	...	10·16			14 24 48·37	177 34 45·51
24	G	...	8·71	<i>α² Centauri.</i>			
25	G	...	9·52	Jan. 9	T	...	150 16 6·22
26	G	...	9·73	11	T	...	6·19
Dec. 1	IF	...	11·53	12	T	...	5·89
4	IF	...	10·06	27	G	...	6·58
		14 9 24·83	70 6 9·65	30	G	...	5·99
<i>λ Virginis.</i>				Feb. 3	IF	...	6·99
May 30	G	14 11 42·08	102 44 17·43	Apr. 16	G	14 30 19·28	8·75
June 27	W	42·06	17·48	20	G	18·92	6·71
July 24	IF	42·12	17·04	27	G	...	7·28
		14 11 42·09	102 44 17·32	July 8	G	18·77	5·48
<i>z Libræ.</i>				9	CF	...	6·26
July 24	IF	14 16 3·63	101 5 10·06	10	IF	18·74	5·80
				13	CF	19·25	6·35
				17	G	...	5·69
				25	CF	18·89	5·99
				30	IF	...	6·55

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^2 Centauri— <i>continued.</i>				α^1 Centauri— <i>continued.</i>			
Aug. 1	IF	^{h m s} 14 30 18.60	150° 16' 4.48	Sept. 1	IF	^{h m s}	150° 15' 56.89
4	G	18.78	6.04	3	IF	...	57.40
5	IF	18.75	...	4	IF	...	56.80
10	G	18.70	4.93			14 30 19.04	150 15 57.85
17	G	...	5.28	8 Libræ.			
19	IF	18.71	8.89	Aug. 5	IF	14 43 7	105 25 30.56
26	IF	18.69	4.77	α^2 Libræ.			
28	IF	...	8.99	Feb. 9	OF	...	105 28 12.08
31	G	18.52	5.43	Apr. 13	G	...	12.46
Sept. 1	IF	18.82	7.43	15	OF	14 43 18.29	11.81
3	IF	18.90	5.59	16	G	18.26	11.65
4	IF	18.87	6.74	20	G	18.32	12.87
		14 30 18.82	150 16 6.34	27	G	18.32	12.38
α^2 Centauri (Reflexion).				May 30	G	...	11.56
Jan. 27	G	...	150 16 6.85	June 27	W	...	10.72
α^1 Centauri.				July 22	G	...	12.05
Apr. 15	OF	14 30 19.18	150 15 58.33	25	OF	...	12.91
July 8	G	...	58.39	30	G	...	12.02
9	OF	18.90	58.68	Aug. 1	G	...	11.58
10	IF	...	57.63	2	G	...	12.23
13	OF	...	57.82	3	G	...	12.02
17	G	...	57.81	4	G	18.26	11.72
25	OF	...	57.67	10	G	...	12.09
30	IF	...	61.49	12	IF	18.34	13.35
Aug. 1	IF	...	56.04	17	G	...	11.98
4	G	...	57.29	19	IF	...	11.18
10	G	...	57.79	26	IF	18.26	11.63
17	G	...	58.86	31	G	...	12.06
19	IF	...	57.57	Sept. 3	IF	...	11.41
26	IF	...	57.55	4	IF	...	12.22
28	IF	...	57.93			14 43 18.29	105 28 12.00
31	G	...	57.25				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ψ Boötis.				ζ ¹ Libræ.			
Mar. 29	W	^{h m s} 14 58 34.38	^{° ' "}	May 30	G	^{h m s} 15 20 32.11	106° 14' 8.77
Apr. 1	W	34.59	...	α Coronæ Borealis.			
13	G	...	62 30 57.98				
15	CF	34.51	59.07	Mar. 29	W	15 28 53.29	...
16	G	34.50	58.24	Apr. 1	W	53.34	...
20	G	34.53	57.14	21	CF	...	62 49 16.90
27	G	34.51	58.53	24	CF	53.31	18.75
		14 58 34.50	62 30 58.19	29	W	53.28	16.30
ε ¹ Libræ.						15 28 53.31	62 49 17.32
May 30	G	15 4 25.01	109 16 13.75	κ Libræ.			
July 24	IF	25.15	14.49				
25	CF	25.07	13.13	May 3	W	15 34 3.46	109 13 53.64
		15 4 25.08	109 16 13.79	4	CF	3.26	...
β Libræ.						15 34 3.36	109 13 53.64
Mar. 29	W	15 9 38.29	98 52 29.88	α Serpentis.			
Apr. 1	W	38.30	...				
13	G	...	29.10	Apr. 21	CF	...	83 8 25.02
15	CF	38.44	28.85	24	CF	15 37 31.33	26.75
16	G	38.34	29.60	25	W	31.37	26.20
20	G	38.32	29.93	28	CF	31.36	26.86
25	W	38.32	29.16	29	W	31.39	...
27	G	38.31	28.78	May 9	G	31.21	27.15
29	W	38.31	...	11	CF	31.41	26.22
May 3	W	...	28.31	13	G	31.35	25.50
July 24	IF	...	28.99	23	W	31.33	26.51
Aug. 10	G	...	29.30	Aug. 12	IF	31.30	26.70
12	IF	38.33	29.22			15 37 31.34	83 8 26.32
		15 9 38.33	98 52 29.19				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
θ Libræ.				β^2 Scorp.ii.			
June 27	W	^h 15 ^m 46 ^s 1.79	106° 19' 25".78	May 9	G	^h 15 ^m 57 ^s 29	109° 25' 25".30
28	W	1.72	25.72	δ Ophiuchi.			
		15 46 1.76	106 19 25.75	Apr. 7	G	16 7 10	93 20 21.39
δ^1 Scorp.ii.				B.A.C. 5412.			
Apr. 7	G	15 52 14.20	112 13 40.31	Aug. 25	G	16 10 41.66	176 5 18.46
June 27	W	14.13	...	26	G	41.38	19.70
28	W	14.20	41.97			16 10 41.52	176 5 19.08
		15 52 14.18	112 13 41.14	B.A.C. 5412 S.P.			
β^1 Scorp.ii.				Aug. 25	G	16 10 41.73	176 5 20.62
Apr. 7	G	...	109 25 38.75	26	G	41.41	21.68
21	CF	...	37.30			16 10 41.57	176 5 21.15
24	CF	15 57 28.56	37.15	σ Scorp.ii.			
28	CF	28.52	37.67	June 28	W	16 12 51.90	115 15 38.24
29	W	28.62	38.24	29	G	51.96	38.73
May 8	IF	28.51	38.58	July 25	CF	51.92	38.30
9	G	...	38.24	26	W	51.94	37.40
11	CF	28.55	37.66			16 12 51.93	115 15 38.17
12	IF	...	37.56	α Scorp.ii.			
13	G	28.50	38.34	Jan. 1	T	...	116 7 26.97
18	G	28.49	37.72	4	T	...	28.28
21	G	...	38.39	6	T	...	27.16
23	W	28.47	37.33	8	T	...	27.04
27	G	...	38.49	9	T	...	27.18
30	G	...	37.28	11	T	...	27.31
June 6	G	...	38.59				
8	G	...	39.28				
11	G	...	38.09				
12	G	...	38.58				
July 25	CF	...	37.67				
Aug. 4	G	28.45	38.78				
		15 57 28.52	109 25 38.08				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Scorpil.—continued.</i>				<i>κ Ophiuchi.—continued.</i>			
Jan. 12	T	^{h m s} ...	116° 7' 27.74	May 13	G	^{h m s} 16 51 11.17	80° 24' 33.19
25	T	...	27.15	18	G	11.19	33.37
27	G	...	27.67	23	W	11.15	...
Feb. 11	CF	...	27.71	27	G	...	33.57
Apr. 7	G	...	28.79			16 51 11.15	80 24 32.57
May 4	CF	16 21 0.77	26.11	<i>Α Ophiuchi (1st Star).</i>			
June 3	G	0.73	28.59	July 26	W	17 6 55.60	116 23 56.47
4	CF	0.72	26.35	<i>α Herculis.</i>			
6	G	...	28.14	Mar. 29	W	17 8 24.22	...
8	G	...	28.54	Apr. 1	W	24.08	75 27 3.31
11	G	...	27.83	15	CF	24.11	2.78
12	G	...	28.41	16	G	24.19	2.79
28	W	...	27.85	20	G	24.18	2.63
29	G	...	27.87	21	CF	...	3.67
July 26	W	...	27.24	24	CF	24.15	3.24
Aug. 4	G	0.76	28.85	25	W	24.14	1.91
25	G	0.65	26.69	27	G	24.18	1.44
26	G	...	27.92	28	CF	24.13	2.48
		16 21 0.73	116 7 27.64	29	W	24.09	2.46
<i>τ Scorpil.</i>				May 4	CF	24.14	1.58
May 4	CF	16 27 21.51	117 55 38.73	9	G	24.16	2.02
<i>ζ Herculis.</i>				11	CF	24.26	0.95
May 8	IF	16 36 7.31	58 9	13	G	24.16	2.51
<i>κ Ophiuchi.</i>				18	G	24.17	3.18
May 4	CF	16 51 11.08	80 24 32.65	23	W	24.13	2.26
8	IF	11.21	32.22	27	G	...	2.72
9	G	11.18	32.29	June 3	G	24.14	2.21
11	CF	11.04	30.72	4	CF	24.16	0.77
						17 8 24.16	75 27 2.36

196 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
θ Ophiuchi.				α Ophiuchi—continued.			
Mar. 12	G	^h ^m ^s	114° 51' 32".23	Apr. 21	CF	^h ^m ^s	77° 20' 14".55
29	W	17 13 35.96	33.15	24	CF	17 28 34.62	14.40
Apr. 1	W	35.89	...	25	W	34.58	14.66
15	CF	35.83	32.34	27	G	34.55	14.62
16	G	35.91	32.80	28	CF	34.62	14.25
20	G	35.92	32.01	29	W	34.58	14.90
21	CF	...	31.67	May 4	CF	34.61	13.58
22	W	...	32.16	8	IF	34.59	15.13
24	CF	35.84	31.69	9	G	34.60	15.59
25	W	35.85	32.23	11	CF	34.60	14.01
27	G	35.89	32.37	12	IF	...	15.14
28	CF	35.91	31.86	13	G	34.55	13.69
29	W	35.88	32.68	18	G	34.62	14.73
May 4	CF	35.87	32.84	June 3	G	34.58	15.33
8	IF	35.88	31.46	4	CF	34.54	13.30
9	G	35.88	33.82			17 28 34.58	77 20 14.64
11	CF	35.87	30.91	58 Ophiuchi.			
18	G	35.85	34.81	Mar. 12	G	17 35 13.45	111 36 44.10
23	W	35.94	31.94	June 29	G	13.42	46.58
27	G	...	32.87	30	CF	13.44	46.09
June 3	G	35.85	32.39			17 35 13.44	111 36 45.59
4	CF	35.89	31.57	4 Sagittarii.			
30	CF	...	31.90	Aug. 24	CF	17 51 25.72	113 47 59.81
July 26	W	...	31.42	σ Octantis.			
		17 13 35.88	114 51 32.31	Mar. 29	W	...	179 16 43.55
σ^2 Ophiuchi.				Apr. 1	W	...	43.86
Mar. 12	G	17 23 3.49	113 51 9.13	15	CF	...	43.14
α Ophiuchi.				20	G	...	42.09
Mar. 29	W	17 28 34.65	...	22	W	...	40.80
Apr. 1	W	34.52	77 20 16.13				
15	CF	34.52	14.70				
20	G	34.59	14.77				

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>σ Octantis—continued.</i>				<i>μ Sagittarii—continued.</i>			
Apr. 24	OF	^{h m s}	179° 16' 43 ^s ·82	June 3	G	^{h m s} 18 5 34 ^s ·28	111° 5' 28 ^s ·11
25	W	...	42 ^s ·45	4	CF	34 ^s ·29	26 ^s ·83
27	G	17 53 31 ^s ·84	43 ^s ·44	29	G	...	27 ^s ·97
29	W	34 ^s ·07	43 ^s ·65	30	CF	...	28 ^s ·02
May 9	G	...	40 ^s ·94	July 28	G	...	27 ^s ·24
12	IF	25 ^s ·67	43 ^s ·15	Aug. 24	CF	...	27 ^s ·28
13	G	34 ^s ·66	41 ^s ·15	Sept. 7	G	34 ^s ·27	26 ^s ·78
18	G	33 ^s ·93	43 ^s ·22	8	CF	...	27 ^s ·08
23	W	35 ^s ·07	43 ^s ·01	11	CF	34 ^s ·29	28 ^s ·39
27	G	32 ^s ·89	42 ^s ·00	12	IF	...	26 ^s ·39
Sept. 7	G	...	42 ^s ·35	15	CF	34 ^s ·22	25 ^s ·53
12	IF	...	45 ^s ·37	16	IF	34 ^s ·37	27 ^s ·17
15	CF	...	43 ^s ·65	17	G	...	26 ^s ·95
16	IF	...	43 ^s ·03	18	CF	34 ^s ·32	27 ^s ·00
17	G	...	42 ^s ·90	19	IF	34 ^s ·23	28 ^s ·21
18	CF	...	42 ^s ·61			18 5 34 ^s ·26	111 5 27 ^s ·34
19	IF	...	43 ^s ·53				
		17 53 32 ^s ·59	179 16 42 ^s ·90				
<i>σ Octantis S.P.</i>				<i>δ Sagittarii.</i>			
Sept. 23	G	...	179 16 44 ^s ·52	Sept. 11	CF	18 12 13 ^s ·34	119 52 54 ^s ·82
				12	IF	...	55 ^s ·44
				15	CF	13 ^s ·51	55 ^s ·12
				18	CF	13 ^s ·45	55 ^s ·21
				19	IF	13 ^s ·42	55 ^s ·79
						18 12 13 ^s ·43	119 52 55 ^s ·28
<i>μ Sagittarii.</i>				<i>ε Sagittarii.</i>			
Apr. 1	W	18 5 34 ^s ·31	...	Sept. 7	G	18 15 4 ^s ·69	124 26 42 ^s ·74
20	G	34 ^s ·18	111 5 27 ^s ·24	8	CF	...	40 ^s ·40
22	W	...	26 ^s ·02	16	IF	4 ^s ·81	42 ^s ·67
24	OF	34 ^s ·25	27 ^s ·05			18 15 4 ^s ·75	124 26 41 ^s ·94
25	W	34 ^s ·24	...				
27	G	...	28 ^s ·23				
29	W	34 ^s ·24	27 ^s ·53				
May 9	G	34 ^s ·23	28 ^s ·04				
11	CF	34 ^s ·17	27 ^s ·16				
13	G	34 ^s ·25	...				
18	G	34 ^s ·20	28 ^s ·59				
23	W	34 ^s ·28	27 ^s ·23				

198 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Telescopii.				θ Coronæ Australis.			
Sept. 12	IF	^h ^m ^s	136° 2' 19".66	Sept. 16	IF	^h ^m ^s 18 23 43.08	132° 24' 23".71
19	IF	18 16 48.89	20.95	B.A.C. 6305.			
		18 16 48.89	136 2 20.31				
ζ Telescopii.				Sept. 7	G	18 24 58.47	123 6 49.53
Sept. 11	CF	18 18 16.56	139 8 24.21	11	CF	58.51	49.64
15	CF	16.60	23.72	15	CF	58.51	48.83
18	CF	16.66	23.62	18	CF	58.53	48.82
		18 18 16.61	139 8 23.85			18 24 58.51	123 6 49.21
ν Pavonis.				ζ Pavonis.			
Sept. 17	G	18 18 35	152 21 33.50	Sept. 12	IF	18 27 1	161 32 16.30
λ Sagittarii.				B.A.C. 6352.			
Mar. 12	G	18 19 30.81	115 29 34.67	Sept. 7	G	18 31 59.16	154 59 36.22
June 3	G	30.98	36.05	8	CF	59.02	37.95
July 28	G	30.96	35.93	11	CF	59.20	37.31
Sept. 16	IF	30.98	35.74	12	IF	...	36.37
		18 19 30.93	115 29 35.60	14	G	59.15	38.46
				18	CF	59.18	37.41
				19	IF	59.42	36.75
B.A.C. 6275.						18 31 59.19	154 59 37.21
Sept. 7	G	18 21 1.91	123 7 55.73	α Lyrae.			
δ^2 Telescopii.				Aug. 24	CF	18 32 17.87	51 20 30.26
Sept. 12	IF	...	135 50 46.38	θ Pavonis.			
19	IF	18 21 53.99	46.78	Sept. 16	IF	18 35 8.98	155 12 48.35
		18 21 53.99	135 50 46.58				

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
Lacaille 7845.				γ Coronæ Australis.			
Sept. 18	CF	$18^{\text{h}} 39^{\text{m}} 4^{\text{s}}.84$	$142^{\circ} 21' 4''.58$	Sept. 7	G	$18^{\text{h}} 57^{\text{m}} 9^{\text{s}}.25$	$127^{\circ} 15' 21''.84$
				8	CF	9.30	22.80
				16	IF	9.26	21.50
						$18 57 9.27$	$127 15 22.05$
λ Pavonis.				δ Coronæ Australis.			
Sept. 7	G	$18 39 30.70$	$152 20 18.71$	Sept. 12	IF	$18 58 48.48$	$130 42 16.07$
8	CF	30.74	16.71	14	G	48.53	16.23
11	CF	30.69	20.18	19	IF	48.54	16.81
12	IF	...	17.89			$18 58 48.52$	$130 42 16.37$
14	G	30.63	19.53	α Coronæ Australis.			
15	CF	30.81	18.36	Sept. 15	CF	$19 0 9.06$	$128 6 48.01$
19	IF	30.87	18.66	16	IF	8.88	48.69
		$18 39 30.74$	$152 20 18.58$	18	CF	8.94	49.45
κ Pavonis.						$19 0 8.96$	$128 6 48.72$
Sept. 16	IF	$18 42 48.38$	$157 23 55.27$	π Sagittarii.			
B.A.C. 6414.				June 30	CF	$19 1 36.87$	$111 14 15.52$
Sept. 7	G	$18 43 53.91$	$120 53 34.21$	July 1	IF	36.91	15.38
14	G	54.04	33.66	Aug. 24	CF	36.97	15.29
		$18 43 53.98$	$120 53 33.94$			$19 1 36.92$	$111 14 15.40$
β Lyræ.				δ Sagittarii.			
Aug. 24	CF	$18 45 1$	$56 47 37.86$	July 28	G	$19 9 37.08$	$109 11 35.22$
σ Sagittarii.				Sept. 22	CF	...	34.88
June 30	CF	$18 56 28.32$	$111 56 18.19$			$19 9 37.08$	$109 11 35.05$
July 1	IF	28.37	18.28				
		$18 56 28.35$	$111 56 18.24$				

200 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β^1 Sagittarii.				δ Aquila.			
Sept. 7	G	^{h m s} 19 12 47.09	^{° ' "} 134 42 42.59	July 28	G	^{h m s} 19 18 35	^{° ' "} 87 9 17.20
8	CF	47.00	43.18	μ Telescopii.			
11	CF	46.92	42.52	Sept. 7	G	19 19 26.93	145 23 9.10
15	OF	47.07	43.25	8	CF	26.91	9.56
16	IF	46.94	42.22	11	CF	26.99	9.87
18	CF	46.87	44.16	14	G	27.05	9.49
19	IF	46.94	41.02	15	CF	26.99	8.99
		19 12 46.98	134 42 42.71	18	OF	26.80	9.15
O.G.A. 26486.				19	IF	27.05	11.07
Sept. 7	G	19 12 49.63	134 42 36.20			19 19 26.96	145 23 9.60
β^2 Sagittarii.				λ^2 Sagittarii.			
Sept. 12	IF	19 13 18.80	135 3 10.27	July 28	G	...	115 10 56.39
14	G	18.83	10.13	Aug. 25	G	19 28 22.06	57.17
		19 13 18.82	135 3 10.20	26	IF	22.00	58.28
ρ Sagittarii.				Sept. 7	G	22.09	57.14
June 3	G	19 13 43.59	108 6 6.29	8	CF	...	56.42
July 28	G	43.60	5.39	11	OF	22.05	56.66
29	CF	...	7.85	12	IF	...	57.94
Aug. 24	CF	43.57	6.36	14	G	22.12	57.82
25	G	43.53	5.93	15	CF	22.14	56.38
Sept. 22	CF	...	5.31	16	IF	22.11	57.20
		19 13 43.57	108 6 6.19	18	CF	21.96	56.80
B.A.C. 6639.				19	IF	22.05	56.85
Sept. 12	IF	19 18 16.84	120 0 36.09	22	CF	...	56.38
16	IF	16.80	37.26			19 28 22.06	115 10 57.03
		19 18 16.82	120 0 36.68	f Sagittarii.			
				June 3	G	19 38 22.13	110 5 14.69

Royal Observatory, Cape of Good Hope, in 1863. 201

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Aquilæ.				α Aquilæ—continued.			
Aug. 25	G	^{h m s} 19 39 44.89	^{° ′ ″} 79 43 4.93	Sept. 14	G	^{h m s} 19 44 5.84	^{° ′ ″} 81 29 26.23
26	IF	44.86	5.50	15	CF	5.93	25.58
Sept. 7	G	44.79	4.62	16	IF	5.92	26.51
8	CF	...	3.04	18	CF	5.91	26.09
11	CF	44.86	3.18	19	IF	5.94	26.39
12	IF	...	2.82	Nov. 25	CF	...	26.06
14	G	44.75	4.63			19 44 5.92	81 29 26.11
15	CF	44.84	4.38	β Aquilæ.			
16	IF	44.91	3.50	Aug. 25	G	19 48 35.05	83 55 57.71
18	CF	44.81	3.93	26	IF	35.08	58.81
19	IF	44.86	4.63	Sept. 7	G	35.09	58.01
		19 39 44.84	79 43 4.11	8	CF	...	56.98
α Aquilæ.				11	CF	35.00	57.43
Jan. 26	G	...	81 29 26.48	12	IF	...	58.31
Feb. 4	CF	...	26.59	14	G	35.07	58.53
5	CF	...	27.75	15	CF	34.98	58.11
8	CF	...	24.76	16	IF	35.03	58.24
9	CF	...	25.69	18	CF	35.07	57.93
11	CF	...	26.94	19	IF	34.99	56.87
12	CF	...	24.83			19 48 35.04	83 55 57.90
15	CF	...	24.49	δ Pavonia.			
16	CF	...	25.46	Sept. 12	IF	19 55 15.13	156 31 31.42
17	G	...	25.94	14	G	15.10	32.89
19	CF	...	25.32			19 55 15.12	156 31 32.16
20	CF	...	26.32	B.A.C. 6877.			
27	CF	...	26.66	Sept. 7	G	19 55 38.10	122 26 14.10
Mar. 2	T	...	25.11	8	CF	37.97	12.24
July 28	G	...	26.47	11	CF	37.97	13.36
Aug. 25	G	19 44 5.99	26.65	16	IF	38.01	14.37
26	IF	5.95	27.95	18	CF	38.06	12.77
Sept. 7	G	5.87	27.32			19 55 38.02	122 26 13.37
8	CF	...	24.83				
11	CF	5.91	25.95				
12	IF	...	26.67				

202 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
B.A.C. 6922.				α Pavonis.			
Sept. 7	G	^h 20 ^m 2 ^s 11.60	126° 26' 30".80	Sept. 12	IF	^h ... ^m ... ^s ...	147° 10' 10".02
8	OF	11.42	32.63	14	G	20 14 47.27	12.46
11	OF	11.56	30.67	16	IF	47.24	11.21
14	G	11.65	32.08	18	OF	47.08	11.70
18	OF	11.47	31.72	19	IF	47.23	10.20
19	IF	11.52	31.77	24	G	47.18	11.03
		20 2 11.54	126 26 31.61			20 14 47.20	147 10 11.10
B.A.C. 6948.				ρ Capricorni.			
Sept. 7	G	20 7 19.68	120 25 10.80	July 1	IF	...	108 15 49.35
8	OF	19.64	11.46	2	G	...	49.39
11	OF	19.63	11.61	Aug. 25	G	20 21 2.61	49.42
		20 7 19.65	120 25 11.29	26	IF	2.56	...
α^1 Capricorni.				Sept. 14	G	2.67	49.59
May 8	IF	20 10 2.99	102 55 39.57	18	OF	2.60	50.59
July 30	IF	...	43.06	19	IF	2.62	50.67
Sept. 12	IF	...	43.73	23	IF	...	49.22
19	IF	3.15	43.47			20 21 2.61	108 15 49.75
		20 10 3.07	102 55 42.46	ν Pavonis.			
α^2 Capricorni.				Sept. 14	G	20 29 20.26	157 14 19.99
Apr. 10	G	...	102 57 58.78	23	IF	20.22	19.24
July 1	IF	...	59.44			20 29 20.24	157 14 19.62
2	G	...	59.21	β Pavonis.			
30	IF	...	...	Sept. 16	IF	20 32 34.22	156 41 25.87
Aug. 25	G	20 10 27.02	59.76	σ Pavonis.			
26	IF	27.12	59.38	Sept. 14	G	20 36 16.72	159 16 20.14
Sept. 16	IF	27.07	59.69	23	IF	16.75	20.32
18	OF	27.11	59.73	24	G	16.93	19.22
23	IF	...	58.92			20 36 16.80	159 16 19.89
24	G	...	59.53				
		20 10 27.08	102 57 59.38				

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ψ Capricorni.				B Octantis S.P.— <i>continued</i> .			
Sept. 16	IF	^h 20 ^m 37 ^s 58·77	115° 45' 38" 46	May 4	W	^h 20 ^m 43 ^s 0·80	179° 28' 13" 86
ϵ Aquarii.				6	G	...	13' 48
Aug. 26	IF	20 40 15·43	99 59 40·48	11	G	3·37	14·92
α Microscopii.				12	G	3·49	...
Sept. 23	IF	20 41 24·24	124 17 0·75			20 43 3·41	179 28 14·32
B Octantis.				μ Aquarii.			
Apr. 27	G	20 43 6·55	179 28 12·05	July 2	G	20 45 15·79	99 29 41·97
28	G	5·14	13·10	α Octantis.			
29	G	3·68	12·96	Sept. 16	IF	20 47 59·22	167 32 26·15
May 3	W	0·64	13·35	η Microscopii.			
9	G	...	13·23	Sept. 16	IF	20 57 29·92	131 55 44·84
11	G	3·37	12·53	θ Capricorni.			
12	G	6·26	...	May 9	G	20 58 14·59	107 46 29·19
13	G	3·29	...	Lacaille 8707.			
		20 43 4·13	179 28 12·87	Oct. 8	G	21 1 51·91	120 16 27·75
B Octantis S.P.				9	CF	51·89	22·59
Feb. 13	G	...	179 28 13·55	10	IF	52·03	29·25
17	G	...	13·78			21 1 51·94	120 16 26·53
21	G	...	13·68	ν Aquarii.			
25	G	...	15·71	May 9	G	21 2 7·71	101 55 27·05
28	G	...	14·48	July 2	G	7·74	26·98
Mar. 3	G	...	13·20			21 2 7·73	101 55 27·02
Apr. 27	G	20 43 3·44	14·66				
28	G	6·71	14·58				
29	G	3·24	14·31				
30	G	2·81	15·91				

204 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
ϵ Microscopii.				β Aquarii.			
Sept. 23	IF	^h 21 ^m 9 ^s 37.32	122° 44' 32".85	May 9	G	^h 21 ^m 24 ^s 20.73	96° 10' 19".56
Oct. 5	G	37.33	32.50	July 30	IF	...	17.23
6	OF	37.45	31.58	31	OF	...	18.14
7	IF	37.46	32.60	Sept. 16	IF	20.68	18.82
		^h 21 ^m 9 ^s 37.39	122 44 32.38	23	IF	...	19.24
B.A.C. 7384.				24	G	...	18.41
May 11	G	^h 21 ^m 11 ^s 9.07	...	Oct. 5	G	20.68	18.37
12	G	8.53	173 16 25.12	6	OF	20.74	17.50
		^h 21 ^m 11 ^s 8.80	173 16 25.12	7	IF	20.74	19.19
B.A.C. 7384 S.P.				8	G	...	18.77
May 10	G	...	173 16 25.15	9	OF	20.89	18.11
12	G	^h 21 ^m 11 ^s 8.57	25.21	10	IF	20.73	18.18
		^h 21 ^m 11 ^s 8.57	173 16 25.18	12	G	...	18.40
γ Pavonis.						^h 21 ^m 24 ^s 20.74	96 10 18.46
Sept. 16	IF	^h 21 ^m 15 ^s 4.20	155 58 56.91	ξ Aquarii.			
23	IF	4.30	55.13	May 9	G	^h 21 ^m 30 ^s 27.45	98 27 59.17
Oct. 5	G	4.24	56.80	July 31	OF	27.47	59.09
6	OF	4.20	56.92	Sept. 23	IF	...	59.73
7	IF	4.28	56.47	24	G	27.47	60.14
8	G	4.10	56.94			^h 21 ^m 30 ^s 27.46	98 27 59.53
9	OF	4.25	56.65	ϵ Pegasi.			
10	IF	4.36	56.63	Sept. 23	IF	...	80 45 5.97
		^h 21 ^m 15 ^s 4.24	155 58 56.56	Oct. 5	G	^h 21 ^m 37 ^s 27.41	5.23
γ Indi.				6	OF	27.53	4.24
Oct. 12	G	^h 21 ^m 16 ^s 27.77	145 14 56.29	7	IF	27.52	4.46
				8	G	...	4.69
				9	OF	27.41	3.48
				10	IF	27.41	3.70
				12	G	...	4.29
						^h 21 ^m 37 ^s 27.46	80 45 4.51

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
λ Capricorni.				α Gruis—continued.			
May 9	G	$21^h 39^m 9^s \cdot 47$	$101^\circ 59' 44'' \cdot 30$	Oct. 5	G	$21^h 59^m 34^s \cdot 95$	$137^\circ 37' 19'' \cdot 61$
δ Indi.				6	CF	$35^{\circ} 04'$	$20^\circ 14'$
Oct. 5	G	$21^h 48^m 34^s \cdot 35$	$145^\circ 38' 28'' \cdot 29$	7	IF	$35^{\circ} 07'$	$19^\circ 98'$
6	CF	$34^{\circ} 24'$	$29^\circ 66'$	8	G	$35^{\circ} 02'$	$20^\circ 18'$
7	IF	$34^{\circ} 39'$	$28^\circ 12'$	9	CF	$35^{\circ} 02'$	$18^\circ 76'$
8	G	$34^{\circ} 21'$	$29^\circ 02'$	10	IF	$35^{\circ} 00'$	$18^\circ 65'$
9	CF	$34^{\circ} 40'$	$29^\circ 75'$	12	G	$34^{\circ} 99'$	$19^\circ 94'$
10	IF	$34^{\circ} 17'$	$28^\circ 31'$			$21^h 59^m 35^s \cdot 01$	$137^\circ 37' 20'' \cdot 22$
		$21^h 48^m 34^s \cdot 29$	$145^\circ 38' 28'' \cdot 86$	C Octantis.			
ϵ^1 Indi.				May 18	G	$22^h 4^m 17^s \cdot 11$	$176^\circ 39' 34'' \cdot 75$
Oct. 12	G	$21^h 48^m 47^s \cdot 05$	$149^\circ 39' 46'' \cdot 23$	20	G	$17^{\circ} 11'$	$32^\circ 42'$
α Aquarii.				23	W	$17^{\circ} 35'$	$31^\circ 36'$
Sept. 16	IF	$21^h 58^m 44^s \cdot 75$	$90^\circ 59' 1'' \cdot 34$	27	G	...	$32^\circ 72'$
Nov. 18	G	...	$2^\circ 16'$			$22^h 4^m 17^s \cdot 19$	$176^\circ 39' 32'' \cdot 81$
		$21^h 58^m 44^s \cdot 75$	$90^\circ 59' 1'' \cdot 75$	C Octantis S.P.			
α Gruis.				May 19	G	$22^h 4^m 16^s \cdot 90$	$176^\circ 39' 33'' \cdot 31$
Mar. 2	G	...	$137^\circ 37' 21'' \cdot 87$	20	G	$16^{\circ} 57'$	$34^\circ 44'$
3	G	...	$20^\circ 95'$	21	G	$17^{\circ} 70'$	...
5	IF	...	$22^\circ 74'$	24	W	$17^{\circ} 29'$	$33^\circ 93'$
9	G	...	$19^\circ 25'$	27	G	$16^{\circ} 29'$	$33^\circ 02'$
16	G	...	$19^\circ 48'$	28	G	$17^{\circ} 85'$	$34^\circ 62'$
19	IF	...	$20^\circ 31'$			$22^h 4^m 17^s \cdot 10$	$176^\circ 39' 33'' \cdot 86$
20	CF	...	$20^\circ 69'$	B.A.C. 7748.			
22	CF	...	$20^\circ 38'$				
23	G	...	$20^\circ 50'$	Nov. 2	G	$22^h 6^m 15^s \cdot 60$	$132^\circ 1' 44'' \cdot 22$
24	CF	...	$20^\circ 29'$				

206 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Toucani.				δ^s Gruis.			
Oct. 6	CF	^h 22 ^m 9 ^s 4'94	150° 56' 25"16	Oct. 5	G	^h 22 ^m 21 ^s 33'64	134° 26' 54"52
7	IF	5'01	25'19	6	CF	33'62	53'42
9	CF	5'05	24'46	7	IF	33'57	52'91
10	IF	5'19	26'66	9	CF	33'65	54'43
		22 9 5'05	150 56 25'37	10	IF	33'65	53'65
θ Aquarii.				12	G	33'56	53'87
May 20	G	...	98 27 51'04	Nov. 2	G	33'43	54'76
23	W	22 9 36'20	...			22 21 33'59	134 26 53'94
27	G	...	50'50	ζ Aquarii (1st Star).			
June 6	G	...	49'72	Sept. 25	CF	22 21 46'56	90 43 8'35
7	CF	...	49'48	η Aquarii.			
Aug. 28	IF	36'18	51'97	July 31	CF	...	90 49 19'70
Sept. 16	IF	36'06	50'26	Aug. 1	IF	22 28 19'03	22'54
24	G	...	49'53	28	IF	19'05	...
25	CF	36'19	49'27	Sept. 16	IF	18'91	20'52
Nov. 18	G	...	49'21	24	G	...	20'43
		22 9 36'16	98 27 50'11	25	CF	19'02	20'90
γ Aquarii.				Oct. 12	G	...	19'63
June 6	G	22 14 34'84	92 4 33'93	Nov. 2	G	...	20'30
7	CF	34'80	34'33	18	G	...	20'30
July 31	CF	34'67	32'86			22 28 19'00	90 49 20'54
Aug. 28	IF	34'83	34'88	ϵ Piscis Australis.			
		22 14 34'79	92 4 34'00	Nov. 2	G	22 33 4'23	117 45 24'14

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Pegasi.				α Piscis Australis—continued.			
Aug. 28	IF	^{h m s} 22 34 37·89	79° 52' 60·31	Mar. 23	G	^{h m s}	120° 20' 50·61
Sept. 25	CF	37·84	56·69	27	CF	...	48·64
		22 34 37·87	79 52 58·50	29	G	...	50·88
				31	IF	...	49·69
η Gruis.				Apr. 8	CF	...	49·46
Oct. 12	G	22 37 12·14	144 13 8·36	10	G	...	49·42
Nov. 2	G	12·08	8·44	11	T	...	49·97
		22 37 12·11	144 13 8·40	12	T	...	50·46
ι Piscium.				15	G	...	50·15
Nov. 18	G	22 47 59	89 39 51·18	20	T	...	49·44
α Piscis Australis.				21	T	...	50·70
Jan. 7	T	...	120 20 49·94	26	T	...	49·64
13	CF	...	49·84	27	T	...	49·84
15	G	...	50·75	Aug. 28	IF	22 50 4·42	48·16
16	CF	...	49·12	Oct. 5	G	...	51·17
17	G	...	50·49	6	CF	4·41	50·07
20	G	...	47·80	7	IF	4·44	50·20
23	T	...	48·92	9	CF	4·28	48·85
26	CF	...	49·35	10	IF	4·40	50·82
27	CF	...	49·81	12	G	...	49·96
Feb. 6	IF	...	51·31	23	T	...	51·27
Mar. 2	G	...	50·84	Nov. 2	G	...	50·12
9	G	...	49·72	11	IF	4·69	49·59
16	G	...	49·48			22 50 4·44	120 20 49·90
α Pegasi.				Aug. 28	IF	22 57 56·26	75 31 52·05
				Nov. 11	IF	56·18	53·23
						22 57 56·22	75 31 52·64

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Octantis.				γ Piscium—continued.			
June 10	W	^h 23 ^m 5 ^s 44.53	178° 13' 57.90	Oct. 22	T	^h ... ^s ...	87° 27' 55.23
11	G	41.61	55.63	23	T	...	56.04
12	G	43.21	56.33	Nov. 12	G	23 10 3.84	54.17
13	W	43.18	57.20	16	G	...	54.86
		23 5 43.13	178 13 56.77	20	CF	...	56.04
ϵ Octantis S.P.				96 Aquarii.			
June 8	G	...	178 13 57.74	Aug. 28	IF	23 12 17.73	95 52 21.10
11	G	23 5 42.75	60.13	B.A.C. 8157.			
12	G	42.78	59.12	Oct. 5	G	23 17 29.41	147 36 1.22
13	CF	44.58	63.81	6	CF	29.37	1.09
14	W	42.11	58.18	7	IF	29.50	0.87
		23 5 43.06	178 13 59.80	9	CF	29.34	0.59
ϕ Aquarii.				10	IF	29.41	1.39
Aug. 28	IF	23 7 13.55	96 47 12.26			23 17 29.41	147 36 1.03
γ Toucani.				ϵ Piscium.			
Oct. 5	G	23 9 24.71	148 59 8.47	June 7	CF	...	89 29 35.87
6	CF	24.54	8.94	11	G	...	38.70
7	IF	24.73	8.59	12	G	...	38.09
9	CF	24.56	8.65	Aug. 1	IF	23 19 54.58	39.28
10	IF	24.62	8.60	Sept. 25	CF	54.57	36.59
		23 9 24.63	148 59 8.65	Oct. 22	T	...	36.88
γ Piscium.				23	T	...	38.73
June 7	CF	...	87 27 55.24	Nov. 9	G	...	37.65
July 5	G	...	56.56	11	IF	54.61	36.41
Aug. 1	IF	23 10 3.80	57.04	12	G	54.50	36.10
Sept. 25	CF	3.83	55.33	16	G	...	38.05
				20	CF	...	36.89
						23 19 54.57	89 29 37.44

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
B.A.C. 8186.				♂ Sculptoris.			
Oct. 6	CF	^h 23 ^m 23 ^s 9.78	132° 44' 24".32	Oct. 5	G	^h 23 ^m 41 ^s 47.14	° ... "
7	IF	9.98	25.39	6	CF	47.22	118 53 14.73
9	OF	10.06	24.48	7	IF	47.07	15.58
10	IF	9.90	25.63	9	CF	47.16	14.20
		23 23 9.93	132 44 24.96	10	IF	47.22	15.69
						23 41 47.16	118 53 15.05
♂ Piscium.				♂ Piscium.			
July 5	G	...	85 6 57.13	July 5	G	...	83 53 40.48
Aug. 1	IF	23 32 54.27	56.89	Oct. 23	T	...	41.14
Sept. 25	OF	54.27	56.86	24	T	...	41.20
Nov. 9	G	...	56.47	Nov. 12	G	23 52 16.60	41.18
11	IF	54.31	56.61	17	IF	...	40.33
12	G	54.47	57.89			23 52 16.60	83 53 40.87
16	G	...	56.26				
17	IF	...	55.88				
		23 32 54.33	85 6 56.75				

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

CATALOGUE

OF

MEAN RIGHT ASCENSIONS

AND

MEAN DECLINATIONS,

FOR

1863·0

OF

STARS OBSERVED IN THE YEAR 1863.

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1863°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1863°0.	Annual Variation 1864°0.
1	γ Pegasi.....	3°0	0°00	6	h m s 0 6 11°03	+3°081	0°00	9	+14 25 19°64	+20°04
2	δ Piscium	5°6	0°70	2	0 13 33°13	+3°081	0°70	2	+ 7 25 45°54	+20°04
3	Lacaille 57	8	...	...	0 14 21	+2°678	0°88	1	-77 59 0°24	+20°01
4	β Hydri.....	2°9	0°00	5	0 18 29°54	+3°285	0°00	13	-78 1 32°90	+20°25
5	β Hydri S.P.....	...	0°00	2	29°61	...	0°00	3	34°43	...
6	δ Piscium	7°3	0°59	1	0 18 38°41	+3°085	0°59	1	+ 6 56 1°75	+19°94
7	B.A.C. 143.....	5°4	0°76	5	0 27 56°08	+2°885	0°76	5	-53 7 48°59	+19°91
8	β Ceti.....	2°1	0°00	5	0 36 42°71	+3°015	0°00	13	-18 44 19°99	+19°83
9	δ Piscium	4°6	0°74	2	0 41 34°58	+3°105	0°76	3	+ 6 50 19°76	+19°69
10	ϵ Piscium	4°5	0°00	4	0 55 50°17	+3°106	0°00	12	+ 7 9 7°07	+19°50
11	ζ Piscium (1st Star)	5°2	0°81	2	1 6 34°63	+3°126	0°86	3	+ 6 51 0°59	+19°16
12	θ Ceti	3°8	0°00	1	1 17 0°67	+2°996	0°00	5	- 8 53 27°59	+18°73
13	η Piscium	3°7	0°00	1	1 24 9°44	+3°197	0°00	6	+14 38 18°82	+18°71
14	101 Piscium	6°6	0°59	2	1 28 27°22	+3°196	0°59	1	+13 57 34°90	+18°58
15	105 Piscium	6°1	0°66	1	1 32 17°64	+3°223	0°66	1	+15 42 34°97	+18°44
16	α Eridani	0°5	...	...	1 32 36	+2°241	0°00	6	-57 56 1°14	+18°37
17	ϕ Piscium.....	4°4	0°89	1	1 38 9°75	+3°158	0°89	1	+ 8 28 2°59	+18°30
18	β Arietis	2°8	0°00	1	1 47 4°68	+3°298	0°00	6	+20 8 12°63	+17°80
19	α Arietis	2°0	0°00	1	1 59 27°33	+3°365	0°00	5	+22 48 46°17	+17°26
20	15 Arietis	5°9	0°59	1	2 3 2°40	+3°311	0°59	1	+18 51 8°43	+17°20
21	η Arietis	5°4	0°97	1	2 5 8°23	+3°342	0°97	2	+20 33 56°81	+17°15
22	31 Arietis	5°6	0°89	1	2 29 9°95	+3°260	0°89	1	+11 51 6°63	+15°88
23	γ Ceti.....	3°0	0°00	1	2 36 12°24	+3°100	0°00	5	+ 2 39 23°45	+15°42
24	38 Arietis	5°2	0°89	1	2 37 29°97	+3°258	0°89	1	+11 52 3°06	+15°43
25	π Arietis	5°6	0°67	1	2 41 38°87	+3°334	0°67	1	+16 53 34°36	+15°27
26	ϵ Arietis.....	4°6	0°67	1	2 51 23°01	+3°415	0°67	1	+20 47 26°10	+14°70
27	α Ceti	2°7	0°00	1	2 55 7°29	+3°127	0°00	5	+ 3 33 1°68	+14°40
28	δ Arietis.....	4°5	...	...	3 3 48	+3°416	0°00	2	+19 12 23°78	+13°95
29	ζ Arietis	4°9	0°97	1	3 7 1°85	+3°434	0°97	1	+20 32 3°72	+13°68
30	τ Arietis	5°2	3 13 19	+3°449	0°90	1	+20 39 2°74	+13°30

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31	11 Tauri	6·7	0·67	2	3 32 35·65	+3·568	0·67	2	+24 53 2·82	+12·01
32	η Tauri	3·0	0·00	1	3 39 20·82	+3·551	0·00	3	+23 40 44·79	+11·58
33	γ ¹ Eridani	3·1	0·00	1	3 51 38·33	+2·795	0·00	1	-13 54 0·83	+10·55
34	A Tauri	4·5	...	...	3 56 36	+3·534	0·48	2	+21 42 14·89	+10·22
35	ε Reticuli	4·8	0·75	1	3 59 5·53	+0·948	0·75	1	-61 27 47·46	+10·10
36	o ¹ Eridani	4·1	...	...	4 5 11	+2·923	0·00	2	- 7 11 51·34	+ 9·71
37	ε Reticuli	4·4	0·75	1	4 14 7·63	+1·029	0·75	1	-59 37 55·48	+ 8·94
38	δ Tauri	4·0	0·75	1	4 15 2·24	+3·450	0·75	1	+17 13 5·29	+ 8·84
39	ε Tauri	3·7	0·00	1	4 20 37·24	+3·494	0·00	4	+18 52 25·25	+ 8·39
40	α Tauri	1·0	0·00	8	4 28 3·75	+3·434	0·00	18	+16 13 51·30	+ 7·64
41	B.A.C. 1454	5·8	0·65	2	4 33 15·66	-5·640	0·65	3	-81 53 7·81	+ 7·42
42	B.A.C. 1454 S.P. ...	...	0·65	2	15·44	...	0·65	2	10·10	...
43	τ Tauri	4·4	0·25	3	4 34 1·54	+3·591	0·19	4	+22 41 26·70	+ 7·33
44	β Caeli	5·2	0·75	1	4 37 12·99	+2·109	0·75	1	-37 24 48·62	+ 7·29
45	B.A.C. 1483	6·4	0·75	1	4 41 17·84	+2·030	0·75	1	-39 36 20·09	+ 6·75
46	ε Tauri	5·1	0·97	1	4 43 21·85	+3·502	0·97	1	+18 36 12·85	+ 6·54
47	ε Aurigæ	2·7	0·00	2	4 48 4·57	+3·897	0·00	2	+32 56 42·76	+ 6·18
48	ε Tauri	4·7	0·82	3	4 54 54·60	+3·579	0·82	3	+21 23 27·05	+ 5·57
49	ι Tauri	5·5	0·75	2	4 59 42·21	+3·545	0·75	2	+20 14 3·75	+ 5·18
50	15 Orionis	4·8	0·90	2	5 1 51·67	+3·428	0·90	2	+15 25 8·73	+ 5·04
51	β Orionis	1·0	0·00	37	5 7 57·31	+2·879	0·00	63	- 8 21 44·69	+ 4·52
52	β Tauri	1·9	0·00	2	5 17 38·02	+3·787	0·00	5	+28 29 18·60	+ 3·50
53	115 Tauri	5·4	0·90	2	5 19 10·79	+3·495	0·90	2	+17 50 28·19	+ 3·55
54	δ Orionis	Var.	0·00	35	5 25 0·53	+3·061	0·00	52	- 0 24 11·72	+ 3·04
55	B.A.C. 1756	5·3	0·75	1	5 28 14·82	+2·015	0·75	1	-38 36 38·23	+ 2·77
56	ε Orionis	1·8	0·00	1	5 29 15·67	+3·040	0·00	2	- 1 17 31·08	+ 2·68
57	ζ Tauri	3·0	0·25	3	5 29 27·60	+3·582	0·25	3	+21 3 23·65	+ 2·64
58	α Columbæ	2·7	0·00	35	5 34 41·29	+2·172	0·00	59	-34 8 55·93	+ 2·16
59	μ Columbæ	5·4	0·75	1	5 40 54·54	+2·228	0·75	1	-32 21 38·09	+ 1·67
60	χ ¹ Orionis	4·7	0·57	5	5 46 16·35	+3·549	0·57	5	+20 14 51·39	+ 1·10

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61	α Orionis	Var.	0°00	34	5 47 45.33	+ 3.246	0°00	56	+ 7 22 43.26	+ 1.09
62	χ^4 Orionis	4.8	0°98	2	5 55 47.18	+ 3.562	0°98	2	+20 8 18.12	+ 0.37
63	ν Orionis	4.4	0°00	1	5 59 45.05	+ 3.425	0°00	1	+14 46 54.47	0.00
64	η Geminorum ...	Var.	0°47	4	6 6 36.45	+ 3.622	0°47	4	+22 32 35.87	- 0.59
65	μ Geminorum ...	3.2	0°00	3	6 14 40.35	+ 3.631	0°00	7	+22 34 49.63	- 1.39
66	α Argus	-1.0	0°00	38	6 20 54.55	+ 1.330	0°00	39	-52 37 18.28	- 1.83
67	γ Geminorum ...	2.0	0°00	2	6 29 47.87	+ 3.467	0°00	6	+16 30 46.30	- 2.64
68	ξ Geminorum ...	3.4	0°16	1	6 37 35.97	+ 3.369	0°16	1	+13 2 24.32	- 3.48
69	α Canis Majoris..	-1.4	0°00	44	6 39 6.52	+ 2.644	0°00	59	-16 31 50.05	- 4.61
70	ϵ Canis Majoris..	1.5	0°00	34	6 53 14.48	+ 2.356	0°00	61	-28 47 15.30	- 4.60
71	ζ Geminorum ...	Var.	0°53	2	6 55 58.94	+ 3.563	0°49	5	+20 46 4.53	- 4.85
72	λ Geminorum ...	3.6	0°46	2	7 10 13.13	+ 3.453	0°38	6	+16 47 4.39	- 6.09
73	δ Geminorum ...	3.7	...	...	7 11 56	+ 3.589	0°00	2	+22 13 51.96	- 6.19
74	68 Geminorum...	5.0	0°57	2	7 25 47.39	+ 3.429	0°57	4	+16 7 5.64	- 7.34
75	α Canis Minoris..	0.5	0°00	4	7 32 7.80	+ 3.145	0°00	18	+ 5 34 23.69	- 8.87
76	κ Geminorum ...	3.6	0°01	1	7 36 10.35	+ 3.631	0°01	2	+24 43 24.66	- 8.23
77	β Geminorum ...	1.1	...	...	7 36 56	+ 3.682	0°00	1	+28 21 15.31	- 8.29
78	g Geminorum ...	5.1	0°54	4	7 38 11.40	+ 3.481	0°54	6	+18 50 29.02	- 8.38
79	1 Cancri	5.9	0°09	1	7 49 12.59	+ 3.413	0°09	1	+16 9 12.64	- 9.23
80	3 Cancri	6.0	...	...	7 52 56	+ 3.445	0°31	1	+17 40 53.33	- 9.48
81	6 Cancri	5.0	...	...	7 55 6	+ 3.697	0°00	2	+28 10 31.91	- 9.70
82	μ Cancri	5.3	...	...	7 59 42	+ 3.541	0°46	3	+21 58 37.15	- 10.07
83	12 Cancri	6.5	0°99	1	8 1 3.05	+ 3.360	0°99	1	+14 2 13.40	- 10.13
84	ζ Cancri	5.0	0°01	2	8 4 21.16	+ 3.449	0°13	4	+18 3 29.28	- 10.46
85	δ^1 Cancri	5.9	0°01	2	8 15 30.97	+ 3.444	0°01	2	+18 46 11.10	- 11.21
86	A Octantis	7.8	0°32	4	8 18 22.95	-38.217	0°23	10	-88 27 57.01	- 11.46
87	A Octantis S.P. ...	...	0°32	3	23.05	...	0°32	3	58.23	...
88	29 Cancri	5.9	0°95	2	8 20 58.49	+ 3.355	0°95	2	+14 39 43.23	- 11.58
89	θ Cancri	5.8	0°16	1	8 23 46.81	+ 3.430	0°16	2	+18 33 18.73	- 11.83
90	η Cancri	5.5	8 24 47	+ 3.480	0°00	5	+20 54 15.19	- 11.89

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91	δ Cancri.....	4·3	0·19	3	8 36 53·71	+3·419	0·19	6	+18 39 20·28	—12·91
92	ε Hydræ	3·6	8 39 31	+3·183	0·00	4	+ 6 55 9·25	—12·89
93	60 Cancri	5·7	0·31	1	8 48 26·57	+3·284	0·31	2	+12 8 51·72	—13·46
94	α Cancri	4·3	0·52	4	8 50 59·46	+3·289	0·46	5	+12 23 9·66	—13·64
95	κ Cancri	5·0	0·46	5	9 0 19·45	+3·256	0·43	6	+11 13 3·66	—14·20
96	83 Cancri	6·6	...	...	9 11 20	+3·359	0·00	4	+18 17 4·09	—15·01
97	ε Argûs	2·2	0·00	5	9 13 25·21	+1·601	0·00	7	—58 42 4·49	—14·96
98	ζ Octantis.....	5·5	0·38	1	9 15 54·08	—7·287	0·37	2	—85 6 32·49	—15·10
99	ζ Octantis S.P....	...	0·37	2	52·76	...	...	...	...	...
100	α Hydræ	2·0	0·00	12	9 20 51·31	+2·949	0·00	36	— 8 3 58·72	—15·36
101	ω Leonis	5·6	0·17	2	9 21 7·07	+3·220	0·17	2	+ 9 39 6·04	—15·41
102	λ Leonis	5·4	0·32	2	9 24 36·80	+3·224	0·32	2	+10 19 5·51	—15·61
103	ο Leonis	3·8	0·22	3	9 33 50·14	+3·209	0·22	3	+10 30 50·23	—16·13
104	ε Leonis	3·1	...	...	9 38 4	+3·420	0·00	1	+24 24 12·79	—16·34
105	4 Sextantis	6·7	0·99	1	9 43 22·28	+3·128	0·99	1	+ 4 59 1·42	—16·63
106	π Leonis	5·0	...	...	9 52 58	+3·176	0·00	7	+ 8 42 1·47	—17·07
107	A Leonis	4·6	0·17	110	0 37·89	+3·189	0·17	2	+10 40 1·67	—17·44
108	α Leonis	1·4	0·00	110	1 4·45	+3·202	0·00	33	+12 38 8·51	—17·40
109	γ ¹ Leonis	2·0	...	...	10 12 25	+3·319	0·00	5	+20 32 0·57	—18·02
110	43 Leonis	6·5	0·10	210	15 50·19	+3·144	0·10	2	+ 7 14 16·93	—18·11
111	44 Leonis	6·2	0·25	110	18 1·84	+3·168	0·25	1	+ 9 28 48·71	—18·10
112	30 Sextantis.....	4·9	0·02	210	23 17·20	+3·069	0·02	2	+ 0 3 52·96	—18·31
113	ρ Leonis	4·0	...	...	10 25 36	+3·165	0·00	5	+10 0 38·39	—18·37
114	48 Leonis	5·2	0·39	110	27 39·10	+3·134	0·39	2	+ 7 39 29·59	—18·38
115	34 Sextantis.....	7·7	0·69	210	35 33·12	+3·099	0·59	3	+ 4 17 53·30	—18·68
116	36 Sextantis.....	6·5	0·02	210	38 5·86	+3·093	0·02	2	+ 3 12 28·51	—18·78
117	η Argûs	Var.	0·00	310	39 45·11	+2·309	0·00	4	—58 57 53·31	—18·84
118	ι Leonis.....	5·3	...	...	10 42 3	+3·159	0·00	1	+11 16 10·60	—18·93
119	55 Leonis	6·0	0·99	110	48 39·73	+3·088	0·99	1	+ 1 28 1·61	—19·09
120	ε Leonis.....	5·1	0·17	110	53 38·53	+3·112	0·17	2	+ 6 50 12·83	—19·22

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121	ρ^1 Leonis	5°0'32	1	10	54 50°46	+ 3°061	0°32	2	- 1 44 51°04	-19°26
122	ρ^2 Leonis	5°7'0'17	1	10	59 54°91	+ 3°070	0°17	2	+ 2 41 54°37	-19°28
123	δ Leonis.....	2°8 ...	...	11	6 49	+ 3°202	0°00	1	+21 16 26°39	-19°63
124	ϕ Leonis.....	4°5'0°42	4	11	9 41°83	+ 3°049	0°40	7	- 2 54 10°79	-19°60
125	δ Crateris	3°9'0°00	3	11	12 29°59	+ 2°993	0°00	13	-14 2 14°04	-19°42
126	ϵ Leonis.....	5°1'0°10	3	11	23 18°94	+ 3°063	0°06	2	- 2 14 52°55	-19°80
127	ν Leonis.....	4°5'0°00	1	11	29 56°16	+ 3°070	0°00	9	- 0 4 2°91	-19°84
128	B.A.C. 4006	5°7'0°40	2	11	44 2°17	+ 3°065	0°38	3	- 4 34 16°37	-20°01
129	ϵ Corvi	3°1 ...	...	12	3 5	+ 3°074	0°00	1	-21 51 26°00	-20°03
130	η Virginis	4°1 ...	...	12	12 54	+ 3°066	0°00	2	+ 0 5 41°27	-20°05
131	α^1 Crucis	1°1 0°00	16	12	19 0°17	+ 3°261	0°00	19	-62 20 21°35	-20°03
132	α^2 Crucis	1°1 0°00	2	12	19 0°92	+ 3°261	0°00	17	-62 20 24°01	-20°03
133	γ Crucis.....	1°6'0°62	7	12	23 35°20	+ 3°279	0°62	9	-56 20 43°84	-20°27
134	η Virginis.....	5°7'0°40	1	12	26 42°66	+ 3°088	0°40	2	- 8 41 43°86	-19°91
135	β Corvi	2°8'0°00	3	12	27 11°78	+ 3°135	0°00	13	-22 38 18°54	-19°97
136	Lacaille 5235 ...	6°6'0°52	2	12	30 30°23	+13°802	0°52	3	-89 2 46°17	-19°88
137	Lacaille 5235 S.P. ...	0°52	1		30°32	...	0°51	2	48°13	...
138	χ Virginis	4°7'0°29	2	12	32 10°64	+ 3°089	0°27	5	- 7 14 26°45	-19°88
139	β Crucis.....	1°5'0°59	7	12	39 44°39	+ 3°447	0°60	13	-58 56 20°01	-19°78
140	ψ Virginis.....	5°0'0°25	3	12	47 13°89	+ 3°111	0°27	4	- 8 47 38°15	-19°65
141	η Virginis	5°2'0°10	1	13	0 43°34	+ 3°134	0°10	1	-10 0 24°16	-19°35
142	θ Virginis.....	4°4 ...	...	13	2 51	+ 3°098	0°00	1	- 4 48 23°34	-19°34
143	58 Virginis	7°0'0°40	1	13	10 16°73	+ 3°135	0°40	1	- 9 49 23°53	-19°09
144	61 Virginis	4°8 ...	...	13	11 15	+ 3°125	0°25	1	-17 32 51°39	-20°15
145	α Virginis.....	1°2'0°00	4	13	17 58°76	+ 3°150	0°00	41	-10 26 41°52	-18°92
146	λ Virginis	5°5'0°18	1	13	25 45°26	+ 3°149	0°18	1	- 9 27 59°08	-18°69
147	ζ Virginis.....	3°5 ...	...	13	27 43	+ 3°051	0°00	1	+ 0 6 21°48	-18°55
148	85 Virginis	6°5'0°11	2	13	38 12°71	+ 3°216	0°11	2	-15 4 38°24	-18°27
149	89 Virginis	5°2'0°21	3	13	42 25°93	+ 3°245	0°21	3	-17 26 59°72	-18°12
150	β Centauri	0°8'0°63	11	13	54 11°15	+ 4°157	0°62	16	-59 42 34°85	-17°65

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151	α Boötis.....	0·0	0·00	4	14 9 24·83	+ 2·733	0·00	29	+19 53 50·35	—18·92
152	λ Virginis.....	4·6	0·48	3	14 11 42·09	+ 3·234	0·48	3	—12 44 17·32	—16·80
153	γ Libræ.....	6·3	0·56	1	14 16 3·63	+ 3·216	0·56	1	—11 5 10·06	—16·68
154	γ Octantis.....	6·5	0·58	7	14 24 48·35	+21·667	0·58	7	—87 34 42·56	—16·27
155	γ Octantis S.P....	...	0·58	7	48·37	...	0·57	6	45·51	...
156	α^2 Centauri	1	0·56	16	14 30 18·82	+ 4·022	0·44	27	—60 16 6·34	—15·10
157	α^2 Centauri ...R.	...	...	...	...	...	0·07	1	6·85	...
158	α^1 Centauri	3½	0·40	2	14 30 19·04	+ 4·022	0·58	19	—60 15 57·85	—15·10
159	δ Libræ.....	5·3	...	...	14 43 7	+ 3·303	0·59	1	—15 25 30·56	—15·27
160	α Libræ.....	3·0	0·00	7	14 43 18·29	+ 3·305	0·00	23	—15 28 12·00	—15·24
161	ψ Boötis	4·5	0·00	6	14 58 34·50	+ 2·569	0·00	5	+27 29 1·81	—14·28
162	α^1 Libræ.....	4·9	0·51	3	15 4 25·08	+ 3·405	0·51	3	—19 16 13·79	—13·94
163	β Libræ.....	2·7	0·00	9	15 9 38·33	+ 3·218	0·00	11	— 8 52 29·19	—13·58
164	γ^1 Libræ.....	6·2	0·41	1	15 20 32·11	+ 3·376	0·41	1	—16 14 8·77	—12·55
165	α Coronæ Bor. ...	2·4	0·00	4	15 28 53·31	+ 2·538	0·00	3	+27 10 42·68	—12·38
166	κ Libræ.....	5·0	0·34	2	15 34 3·36	+ 3·443	0·34	1	—19 13 53·64	—12·02
167	α Serpentis	2·7	0·00	9	15 37 31·34	+ 2·949	0·00	9	+ 6 51 33·68	—11·62
168	θ Libræ.....	4·3	0·49	2	15 46 1·76	+ 3·405	0·49	2	—16 19 25·75	—10·93
169	δ^1 Scorpii	2·5	0·41	3	15 52 14·18	+ 3·534	0·38	2	—22 13 41·14	—10·63
170	β^1 Scorpii	2½	0·00	9	15 57 28·52	+ 3·475	0·00	21	—19 25 38·08	—10·24
171	β^2 Scorpii	7½	...	...	15 57 29	+ 3·475	0·00	1	—19 25 25·30	—10·24
172	δ Ophiuchi	2·8	...	...	16 7 10	+ 3·136	0·00	1	— 3 20 21·39	— 9·61
173	B.A.O. 5412	6·0	0·65	2	16 10 41·52	+20·472	0·65	2	—86 5 19·08	— 9·23
174	B.A.O. 5412 S.P..	...	0·65	2	41·57	...	0·65	2	21·15	...
175	σ Scorpii	3·0	0·53	4	16 12 51·93	+ 3·633	0·53	4	—25 15 38·17	— 9·04
176	α Scorpii	1·1	0·00	5	16 21 0·73	+ 3·665	0·00	24	—26 7 27·64	— 8·42
177	τ Scorpii	2·9	0·34	1	16 27 21·51	+ 3·722	0·34	1	—27 55 38·73	— 7·91
178	ζ Herculis.....	3·1	0·35	1	16 36 7·31	+ 2·261	...	...	+31 51	— 6·76
179	κ Ophiuchi	3·4	0·00	7	16 51 11·15	+ 2·835	0·00	7	+ 9 35 27·43	— 5·91
180	Δ Ophiuchi (1st Star).	5·8	0·57	1	17 6 55·60	+ 3·679	0·57	1	—26 23 56·47	— 5·74

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1863° 0.	Annual Variation 1864° 0.	Fraction of Year.	No. of Obs.	Mean Dec. 1863° 0.	Annual Variation 1864° 0.
					h m s	s			° ' "	"
181	α Herculis.....	Var.	0·00	18	17 8 24·16	+2·732	0·00	19	+14 32 57·64	— 4·44
182	θ Ophiuchi	3·4	0·00	18	17 13 35 88	+3·677	0·00	23	—24 51 32·31	— 4·06
183	α^2 Ophiuchi	4·9	0·19	1	17 23 3 49	+3·653	0·19	1	—23 51 9·13	— 3·23
184	α Ophiuchi	2·2	0·00	17	17 28 34·58	+2·781	0·00	18	+12 39 45·36	— 2·95
185	58 Ophiuchi	5·0	0·39	3	17 35 13·44	+3·592	0·39	3	—21 36 45·59	— 2·20
186	4 Sagittarii	4·6	0·64	1	17 51 25·72	+3·660	0·64	1	—23 47 59·81	— 0·80
187	σ Octantis.....	5·5	0·36	7	17 53 32·59	+109·673	0·00	22	—89 16 42·90	— 0·27
188	σ Octantis S.P....	...	...	...	...	...	0·00	1	44·52	...
189	μ Sagittarii	4·1	0·00	18	18 5 34·26	+3·586	0·00	24	—21 5 27·34	+ 0·49
190	δ Sagittarii	2·8	0·70	4	18 12 13·43	+3·841	0·70	5	—29 52 55·28	+ 1·05
191	ϵ Sagittarii	2·1	0·69	2	18 15 4·75	+3·983	0·69	3	—34 26 41·94	+ 1·18
192	α Telescopii	3·7	0·71	1	18 16 48·89	+4·455	0·71	2	—46 2 20·31	+ 1·41
193	ζ Telescopii	4·0	0·70	3	18 18 16·61	+4·617	0·70	3	—49 8 23·85	+ 1·35
194	ν Pavonis	4·9	...	...	18 18 35	+5·616	0·71	1	—62 21 33·50	+ 1·63
195	λ Sagittarii	3·1	0·47	4	18 19 30·93	+3·702	0·47	4	—25 29 35·60	+ 1·51
196	B.A.C. 6275	7·9	0·68	1	18 21 1·91	+3·941	0·68	1	—33 7 55·73	+ 1·84
197	δ^1 Telescopii	5·3	0·71	1	18 21 53·99	+4·440	0·71	2	—45 50 46·58	+ 1·86
198	θ Coronæ Aust....	4·4	0·71	1	18 23 43·08	+4·286	0·71	1	—42 24 23·71	+ 2·06
199	B.A.C. 6305	5·4	0·70	4	18 24 58·51	+3·939	0·70	4	—33 6 49·21	+ 2·19
200	ζ Pavonis	4·0	...	...	18 27 1	+7·046	0·70	1	—71 32 16·30	+ 2·24
201	B.A.C. 6352	4·8	0·70	6	18 31 59·19	+5·910	0·70	7	—64 59 37·21	+ 2·62
202	α Lyre	0·2	0·00	1	18 32 17·87	+2·030	0·00	1	+38 39 29·74	+ 3·12
203	θ Pavonis	5·9	0·71	1	18 35 8·98	+5·933	0·71	1	—65 12 48·35	+ 3·02
204	Lacaille 7845 ...	7½	0·71	1	18 39 4·84	+4·774	0·71	1	—52 21 4·58	+ 3·42
205	λ Pavonis	4·4	0·69	6	18 39 30·74	+5·585	0·69	7	—62 20 18·58	+ 3·45
206	κ Pavonis	Var.	0·71	1	18 42 48·38	+6·228	0·71	1	—67 23 55·27	+ 3·74
207	B.A.C 6414	6·8	0·69	2	18 43 53·98	+3·858	0·69	2	—30 53 33·94	+ 3·82
208	β Lyre	Var.	...	...	18 45 1	+2·213	0·00	1	+33 12 22·14	+ 3·94
209	σ Sagittarii	3·9	0·50	2	18 56 28·35	+3·597	0·50	2	—21 56 18·24	+ 4·84
210	γ Coronæ Aust....	4·3	0·69	3	18 57 9·27	+4·064	0·69	3	—37 15 22·05	+ 4·62

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1863°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1863°o.	Annual Variation 1864°o.
					^h ^m ^s	^s			^o [']	["]
211	δ Coronæ Aust....	4·4	0·70	3	18 58 48·52	+4·182	0·70	3	—40 42 16·37	+ 5·03
212	α Coronæ Aust....	4·2	0·71	3	19 0 8·96	+4·092	0·71	3	—38 6 48·72	+ 5·05
213	π Sagittarii	3·1	0·55	3	19 1 36·92	+3·571	0·55	3	—21 14 15·40	+ 5·30
214	δ Sagittarii	4·9	0·57	1	19 9 37·08	+3·514	0·65	2	—19 11 35·05	+ 6·00
215	β ¹ Sagittarii	4	0·70	7	19 12 46·98	+4·326	0·70	7	—44 42 42·71	+ 6·25
216	C.G.A. 26486.....	7	0·68	1	19 12 49·63	+4·326	0·68	1	—44 42 36·20	+ 6·25
217	β ² Sagittarii	4·4	0·70	2	19 13 18·82	+4·347	0·70	2	—45 3 10·20	+ 6·23
218	ρ Sagittarii	3·9	0·57	4	19 13 43·57	+3·483	0·60	6	—18 6 6·19	+ 6·37
219	B.A.C. 6639	5·8	0·71	2	19 18 16·82	+3·800	0·71	2	—30 0 36·68	+ 6·72
220	δ Aquilæ	3·5	...	...	19 18 35	+3·025	0·57	1	+ 2 50 42·80	+ 6·84
221	μ Telescopii	6·7	0·70	7	19 19 26·96	+4·893	0·70	7	—55 23 9·60	+ 6·82
222	λ ² Sagittarii	4·6	0·00	9	19 28 22·06	+3·656	0·00	13	—25 10 57·03	+ 7·54
223	f Sagittarii	5·1	0·42	1	19 38 22·13	+3·505	0·42	1	—20 5 14·69	+ 8·27
224	γ Aquilæ	2·8	0·00	9	19 39 44·84	+2·852	0·00	11	+10 16 55·89	+ 8·47
225	α Aquilæ	1·0	0·00	9	19 44 5·92	+2·927	0·00	27	+ 8 30 33·89	+ 9·19
226	β Aquilæ	4·0	0·00	9	19 48 35·04	+2·946	0·00	11	+ 6 4 2·10	+ 8·69
227	δ Pavonis	3·6	0·70	2	19 55 15·12	+5·962	0·70	2	—66 31 32·16	+ 8·45
228	B.A.C. 6877	5·0	0·69	5	19 55 38·02	+3·816	0·69	5	—32 26 13·37	+ 9·63
229	B.A.C. 6922	5·4	0·70	6	20 2 11·54	+3·954	0·70	6	—36 26 31·61	+ 8·60
230	B.A.C. 6948	6·5	0·68	3	20 7 19·65	+3·739	0·68	3	—30 25 11·29	+10·59
231	α ¹ Capricorni	4·5	0·00	2	20 10 3·07	+3·330	0·00	4	—12 55 42·46	+10·81
232	α ² Capricorni	3·8	0·00	4	20 10 27·08	+3·334	0·00	9	—12 57 59·38	+10·83
233	α Pavonis	2·1	0·00	5	20 14 47·20	+4·799	0·00	6	—57 10 11·10	+11·11
234	ρ Capricorni	5·0	0·00	5	20 21 2·61	+3·429	0·00	7	—18 15 49·75	+11·58
235	ν Pavonis	5·3	0·72	2	20 29 20·24	+5·604	0·72	2	—67 14 19·62	+12·17
236	β Pavonis	3·5	0·71	1	20 32 34·22	+5·502	0·71	1	—66 41 25·87	+12·34
237	σ Pavonis	5·5	0·72	3	20 36 16·80	+5·813	0·72	3	—69 16 19·89	+12·65
238	ψ Capricorni.....	4·3	0·71	1	20 37 58·77	+3·564	0·71	1	—25 45 38·46	+12·61
239	ε Aquarii	3·8	0·65	1	20 40 15·43	+3·252	0·65	1	— 9 59 40·48	+12·89
240	α Microscopii	5·0	0·73	1	20 41 24·24	+3·766	0·73	1	—34 17 0·75	+12·95

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1863°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1863°.	Annual Variation 1864°.
					h m s	s			° ' "	"
241	B Octantis	6·6	0·34	7	20 43 4·13	+110·979	0·33	6	—89 28 12·87	+13·21
242	B Octantis S.P... ..	...	0·34	7	3·41	...	0·25	13	14·32	...
243	μ Aquarii	4·8	0·50	1	20 45 15·79	+ 3·241	0·50	1	— 9 29 41·97	+13·21
244	α Octantis.....	5·3	0·71	1	20 47 59·22	+ 7·565	0·71	1	—77 32 26·15	+13·03
245	η Microscopii	5·6	0·71	1	20 57 29·92	+ 3·928	0·71	1	—41 55 44·84	+13·97
246	θ Capricorni	4·3	0·35	1	20 58 14·59	+ 3·381	0·35	1	—17 46 29·19	+14·02
247	Lacaille 8707....	6·9	0·77	3	21 1 51·94	+ 3·618	0·77	3	—30 16 26·53	+14·30
248	ν Aquarii	4·6	0·43	2	21 2 7·73	+ 3·274	0·43	2	—11 55 27·02	+14·31
249	ϵ Microscopii	4·8	0·75	4	21 9 37·39	+ 3·654	0·75	4	—32 44 32·38	+14·74
250	B.A.C. 7384	6·7	0·36	2	21 11 8·80	+10·642	0·36	1	—83 16 25·12	+14·76
251	B.A.C. 7384 S.P..	...	0·36	1	8·57	...	0·36	2	25·18	...
252	γ Pavonis	4·2	0·75	8	21 15 4·24	+ 5·066	0·75	8	—65 58 56·56	+15·93
253	γ Indi	6·2	0·78	1	21 16 27·77	+ 4·333	0·78	1	—55 14 56·29	+15·16
254	β Aquarii	3·1	0·00	7	21 24 20·74	+ 3·162	0·00	13	— 6 10 18·46	+15·61
255	ξ Aquarii	4·8	0·55	3	21 30 27·46	+ 3·199	0·60	4	— 8 27 59·53	+15·92
256	ϵ Pegasi.....	2·4	0·00	5	21 37 27·46	+ 2·946	0·00	8	+ 9 14 55·49	+16·31
257	λ Capricorni	5·4	0·35	1	21 39 9·47	+ 3·237	0·35	1	—11 59 44·30	+16·38
258	δ Indi.....	4·5	0·77	6	21 48 34·29	+ 4·135	0·77	6	—55 38 28·86	+16·86
259	κ^1 Indi	6·4	0·78	1	21 48 47·05	+ 4·310	0·78	1	—59 39 46·23	+16·86
260	α Aquarii	3·2	0·00	1	21 58 44·75	+ 3·083	0·00	2	— 0 59 1·75	+17·32
261	α Gruis	1·9	0·00	7	21 59 35·01	+ 3·817	0·00	17	—47 37 20·22	+17·17
262	C Octantis.....	5·7	0·38	3	22 4 17·19	+14·077	0·39	4	—86 39 32·81	+17·64
263	C Octantis S.P... ..	...	0·39	6	17·10	...	0·39	5	33·86	...
264	B.A.C. 7748	6·8	0·84	1	22 6 15·60	+ 3·693	0·84	1	—42 1 44·22	+16·89
265	α Toucani	2·9	0·77	4	22 9 5·05	+ 4·184	0·77	4	—60 56 25·37	+17·72
266	θ Aquarii	4·3	0·00	4	22 9 36·16	+ 3·170	0·00	9	— 8 27 50·11	+17·76
267	γ Aquarii	4·1	0·52	4	22 14 34·79	+ 3·100	0·52	4	— 2 4 34·00	+17·99
268	δ^2 Gruis	4·3	0·78	7	22 21 33·59	+ 3·617	0·78	7	—44 26 53·94	+18·24
269	ζ Aquarii (1st Star)	3·8	0·73	1	22 21 46·56	+ 3·090	0·73	1	— 0 43 8·35	+18·29
270	η Aquarii	4·2	0·00	4	22 28 19·00	+ 3·084	0·00	8	— 0 49 20·54	+18·42

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1863°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1863°0.	Annual Variation 1864°0.
					h m s	s			° ' "	"
271	ε Piscis Australis	4·1	0·84	1	22 33 4·23	+ 3·332	0·84	1	—27 45 24·14	+18·63
272	ζ Pegasi.....	3·6	0·00	2	22 34 37·87	+ 2·990	0·00	2	+10 7 1·50	+18·66
273	η Grus	4·9	0·81	2	22 37 12·11	+ 3·725	0·81	2	—54 13 8·40	+18·76
274	ι Piscium	6·8	...	...	22 47 59	+ 3·070	0·88	1	+ 0 20 8·82	+19·07
275	α Piscis Australis	1·3	0·00	6	22 50 4·44	+ 3·330	0·00	36	—30 20 49·90	+18·97
276	α Pegasi.....	2·6	0·00	2	22 57 56·22	+ 2·983	0·00	2	+14 28 7·36	+19·30
277	τ Octantis.....	5·6	0·45	4	23 5 43·13	+13·212	0·45	4	—88 13 56·77	+19·52
278	τ Octantis S.P....	...	0·45	4	43·66	...	0·44	5	59·80	...
279	φ Aquarii	4·2	0·65	1	23 7 13·55	+ 3·109	0·65	1	— 6 47 12·26	+19·34
280	γ Toucani	4·0	0·76	5	23 9 24·63	+ 3·559	0·76	5	—58 59 8·65	+19·63
281	γ Piscium	3·8	0·00	3	23 10 3·82	+ 3·108	0·00	9	+ 2 32 4·39	+19·60
282	96 Aquarii.....	5·7	0·65	1	23 12 17·73	+ 3·112	0·65	1	— 5 52 21·10	+19·63
283	B.A.C. 8157	5·5	0·76	5	23 17 29·41	+ 3·460	0·76	5	—57 36 1·03	+19·71
284	κ Piscium	5·0	0·00	4	23 19 54·57	+ 3·074	0·00	12	+ 0 30 22·56	+19·65
285	B.A.C. 8186	6·7	0·77	4	23 23 9·93	+ 3·270	0·77	4	—42 44 24·96	+19·70
286	ι Piscium	4·3	0·00	4	23 32 54·33	+ 3·082	0·00	8	+ 4 53 3·25	+19·47
287	δ Sculptoris	4·6	0·00	5	23 41 47·16	+ 3·134	0·00	4	—28 53 15·05	+19·90
288	ω Piscium.....	4·2	0·00	1	23 52 16·60	+ 3·076	0·00	5	+ 6 6 19·13	+19·94

**ROYAL OBSERVATORY,
CAPE OF GOOD HOPE.**

SEPARATE RESULTS

OF

MERIDIAN OBSERVATIONS OF STARS

MADE IN THE YEAR

1864,

REDUCED TO MEAN PLACE FOR 1864'0.

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Pegasi.				β Hydri.			
July 22	G	^h 6 ^m 14 ^s 28	75° 34' 20 ^o 96	Jan. 8	G	^h 18 ^m 33 ^s 05	168° 1' 12 ^o 21
23	CF	13 ^o 99	20 ^o 49	9	G	33 ^o 01	...
Sept. 15	CF	14 ^o 14	18 ^o 18	11	G	33 ^o 00	10 ^o 68
Oct. 14	CF	14 ^o 18	21 ^o 40	12	G	33 ^o 07	...
Nov. 11	CF	14 ^o 05	20 ^o 39	13	G	32 ^o 97	11 ^o 47
Dec. 6	CF	14 ^o 13	18 ^o 87	Apr. 12	W	33 ^o 30	12 ^o 28
7	G	14 ^o 19	19 ^o 86	13	G	32 ^o 88	12 ^o 00
		^o 6 14 ^o 14	75 34 20 ^o 02	14	G	32 ^o 78	12 ^o 48
\circ Octantis.				17	G	32 ^o 96	12 ^o 44
June 20	G	^o 13 16 ^o 43	179 7 9 ^o 09	18	G	33 ^o 05	...
21	G	11 ^o 87	9 ^o 99	20	G	33 ^o 10	...
23	G	16 ^o 99	7 ^o 25	21	G	32 ^o 84	...
		^o 13 15 ^o 10	179 7 8 ^o 78	22	G	33 ^o 12	...
\circ Octantis S.P.				27	G	32 ^o 90	...
June 21	G	^o 13 12 ^o 64	179 7 10 ^o 61	28	G	32 ^o 75	...
22	G	...	11 ^o 07	May 2	G	33 ^o 48	16 ^o 01
23	G	13 ^o 28	9 ^o 42	11	G	32 ^o 78	14 ^o 31
		^o 13 12 ^o 96	179 7 10 ^o 37	25	G	32 ^o 96	12 ^o 91
δ Piscium.				Oct. 14	CF	...	16 ^o 37
July 22	G	^o 13 36 ^o 28	82 33 53 ^o 55	Nov. 4	G	...	12 ^o 99
23	CF	36 ^o 11	53 ^o 93	7	G	...	11 ^o 33
Sept. 15	CF	36 ^o 28	53 ^o 53	9	G	33 ^o 19	11 ^o 94
Nov. 9	G	36 ^o 13	53 ^o 75	11	CF	...	13 ^o 38
		^o 13 36 ^o 20	82 33 53 ^o 69	12	G	...	12 ^o 05
				26	JS	...	12 ^o 55
				30	G	...	11 ^o 84
				Dec. 2	G	33 ^o 08	12 ^o 87
				3	JS	33 ^o 05	12 ^o 47
				5	G	33 ^o 22	11 ^o 96
				6	CF	32 ^o 82	11 ^o 16
				7	G	32 ^o 83	11 ^o 79
				9	G	...	12 ^o 60
				14	G	...	11 ^o 99
				20	G	33 ^o 02	...
				28	G	32 ^o 82	...
				30	G	32 ^o 86	...
						^o 18 33 ^o 00	168 1 12 ^o 56

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Hydri S.P.				β Ceti.			
Jan. 8	G	^{h m s} o 18 33.08	^{o ' "} ... "	Jan. 11	G	^{h m s} ... "	108° 43' 59.75
11	G	33.04	...	Apr. 12	W	...	59.30
12	G	33.13	...	May 2	G	...	59.08
Apr. 12	W	32.69	168 1 14.62	June 20	G	...	60.73
13	G	33.21	...	21	G	...	60.69
14	W	32.87	13.32	Oct. 14	CF	o 36 45.66	61.78
15	G	33.40	14.86	Nov. 4	G	...	60.07
18	G	33.19	13.76	7	G	...	63.51
20	CF	33.32	16.21	11	CF	45.72	59.63
21	W	32.98	13.93	12	G	45.73	...
22	G	33.32	...	26	CF	...	61.93
23	W	32.70	12.49	28	JS	...	59.89
27	G	32.78	...	30	G	...	60.82
28	W	32.57	13.04	Dec. 2	G	...	61.31
29	G	33.87	13.53	3	JS	...	58.99
May 2	G	32.08	12.97	5	G	45.66	59.60
11	G	32.70	12.90	6	CF	45.66	59.40
12	W	32.99	...	7	G	45.59	60.84
25	G	32.82	...	9	G	...	63.07
Nov. 9	G	33.20	13.63	14	G	...	60.06
Dec. 2	G	33.06	13.24			o 36 45.67	108 44 0.55
5	G	33.04	13.92	δ Piscium.			
7	G	33.00	15.21	Aug. 19	CF	o 41 37.73	83 9 19.20
20	CF	33.16	15.19	Oct. 14	CF	37.72	19.33
27	G	32.82	...	Dec. 7	G	37.71	19.29
29	G	33.06	...	8	CF	37.77	18.96
30	G	32.69	...			o 41 37.73	83 9 19.20
		o 18 32.99	168 1 13.91	12 Ceti.			
July 23	CF	o 23 5.99	94 42 31.67	Oct. 14	CF	5.93	32.04
Oct. 14	CF	5.93	32.04	Dec. 6	CF	5.94	30.59
Dec. 6	CF	5.94	30.59			o 23 5.95	94 42 31.43

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Piscium.				η Piscium.			
July 23	CF	$\begin{smallmatrix} h & m & s \\ 0 & 55 & 53 \cdot 24 \end{smallmatrix}$	$82^{\circ} 50' 33 \cdot 22$	Aug. 21	CF	$\begin{smallmatrix} h & m & s \\ & & \dots \end{smallmatrix}$	$75^{\circ} 21' 21 \cdot 74$
Aug. 19	CF	53' 27	32' 27	Oct. 14	CF	1 24 12' 58	25' 76
Nov. 11	CF	53' 29	32' 68	Dec. 8	CF	...	20' 85
28	W	...	33' 26			1 24 12' 58	75 21 22' 78
Dec. 7	G	53' 19	33' 47	ν Piscium.			
8	CF	...	32' 37	Aug. 21	CF	...	85 12 7' 38
		$0 55 53 \cdot 25$	$82 50 32 \cdot 88$	Oct. 14	CF	1 34 21' 39	4' 59
e Piscium.				Nov. 11	CF	21' 46	5' 46
July 23	CF	1 1 21' 97	85 4 13' 02	Dec. 9	G	...	6' 87
ζ^1 Piscium.						1 34 21' 43	85 12 6' 08
Nov. 11	CF	1 6 37' 87	83 8 42' 93	ϕ Piscium.			
ζ^2 Piscium.				Aug. 21	CF	1 38 12' 92	81 31 40' 38
Nov. 11	CF	1 6 39' 11	83 8 28' 00	Oct. 14	CF	12' 84	39' 64
θ^1 Ceti				Dec. 8	CF	12' 87	38' 85
Oct. 14	CF	1 17 13' 68	98 53 8' 63	9	G	12' 95	39' 57
Nov. 11	CF	13' 63	9' 03			1 38 12' 90	81 31 39' 61
22	JS	...	6' 71	β Arietis.			
Dec. 2	G	...	9' 54	May 30	CF	...	69 51 28' 54
5	G	13' 60	8' 11	Aug. 21	CF	...	29' 58
8	CF	...	9' 20	Dec. 9	G	...	31' 34
		1 17 13' 64	98 53 8' 54			1 47 8	69 51 29' 82
ι Arietis.				ι Arietis.			
Nov. 11	CF	1 49 55' 56	72 50 50' 64				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
B.A.C. 632.				γ Ceti.			
Nov. 12	G	$\begin{smallmatrix} h & m & s \\ 1 & 56 & 15 \cdot 31 \end{smallmatrix}$	$\begin{smallmatrix} 72^{\circ} & 24' & 5'' \cdot 67 \end{smallmatrix}$	July 22	G	$\begin{smallmatrix} h & m & s \\ 2 & 36 & 15 \cdot 29 \end{smallmatrix}$	$\begin{smallmatrix} 0^{\circ} & \dots & \dots \end{smallmatrix}$
				31	W	...	87 20 22'46
α Arietis.				Aug. 21	CF	...	18'61
				Nov. 12	G	15'45	20'62
May 25	G	1 59 30'76	...	30	G	...	22'27
30	CF	...	67 10 54'77	Dec. 23	G	...	20'85
Dec. 9	G	...	57'75	29	JS	...	19'55
						$\begin{smallmatrix} 2 & 36 & 15 \cdot 37 \end{smallmatrix}$	87 20 20'73
		$\begin{smallmatrix} 1 & 59 & 30 \cdot 76 \end{smallmatrix}$	$\begin{smallmatrix} 67 & 10 & 56 \cdot 26 \end{smallmatrix}$	β Arietis.			
δ Ceti.				Oct. 16	CF	$\begin{smallmatrix} 2 & 37 & 33 \cdot 24 \end{smallmatrix}$	$\begin{smallmatrix} 78 & 7 & 41 \cdot 11 \end{smallmatrix}$
Nov. 26	CF	...	97 2 59'81	Dec. 9	G	33'19	42'98
Dec. 1	CF	...	60'15	10	JS	33'30	41'72
		$\begin{smallmatrix} 2 & 10 & 12 \end{smallmatrix}$	97 2 59'98			$\begin{smallmatrix} 2 & 37 & 33 \cdot 24 \end{smallmatrix}$	$\begin{smallmatrix} 78 & 7 & 41 \cdot 94 \end{smallmatrix}$
ζ Ceti.				π Arietis.			
Oct. 16	CF	...	82 9 2'89	Aug. 21	CF	$\begin{smallmatrix} 2 & 41 & 42 \cdot 50 \end{smallmatrix}$	$\begin{smallmatrix} 73 & 6 & 13 \cdot 77 \end{smallmatrix}$
Nov. 12	G	$\begin{smallmatrix} 2 & 20 & 55 \cdot 90 \end{smallmatrix}$	3'63	22	G	42'45	11'58
Dec. 10	JS	...	2'67	Oct. 16	CF	42'49	11'80
23	G	...	2'37			$\begin{smallmatrix} 2 & 41 & 42 \cdot 48 \end{smallmatrix}$	$\begin{smallmatrix} 73 & 6 & 12 \cdot 38 \end{smallmatrix}$
27	JS	...	3'88	ϵ Arietis.			
		$\begin{smallmatrix} 2 & 20 & 55 \cdot 90 \end{smallmatrix}$	$\begin{smallmatrix} 82 & 9 & 3 \cdot 09 \end{smallmatrix}$	Jan. 17	G	$\begin{smallmatrix} 2 & 51 & 26 \cdot 44 \end{smallmatrix}$	$\begin{smallmatrix} 69 & 12 & 22 \cdot 79 \end{smallmatrix}$
θ Arietis.				Aug. 21	CF	26'35	21'07
				22	G	26'54	21'32
Dec. 9	G	$\begin{smallmatrix} 2 & 29 & 13 \cdot 07 \end{smallmatrix}$	$\begin{smallmatrix} 78 & 8 & 38 \cdot 96 \end{smallmatrix}$	Sept. 19	CF	26'28	21'02
10	JS	13'25	37'18	Nov. 12	G	26'58	21'37
		$\begin{smallmatrix} 2 & 29 & 13 \cdot 16 \end{smallmatrix}$	$\begin{smallmatrix} 78 & 8 & 38 \cdot 07 \end{smallmatrix}$			$\begin{smallmatrix} 2 & 51 & 26 \cdot 44 \end{smallmatrix}$	$\begin{smallmatrix} 69 & 12 & 21 \cdot 51 \end{smallmatrix}$

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Ceti.				η Tauri—continued.			
Jan. 17	G	^{h m s} ...	86° 26' 45.90	Sept. 19	CF	^{h m s} 3 39 24.32	66° 19' 5.40
May 25	G	2 55 10.37	...	Oct. 16	CF	...	3.69
June 8	G	...	44.01	Dec. 10	JS	..	3.44
Sept. 19	CF	10.43	44.77	11	W	...	4.02
Nov. 12	G	10.37	44.89	14	W	...	2.75
30	G	...	45.19	16	W	...	2.87
Dec. 5	G	10.32	43.26	17	W	...	4.07
10	JS	...	44.09	23	W	...	3.32
28	G	...	45.03			3 39 24.32	66 19 3.88
30	G	...	43.99				
		2 55 10.37	86 26 44.57	W. B. (2) III. 1046.			
δ Arietis.				Dec. 14	W	3 48 43.71	63 53 24.57
Aug. 22	G	...	70 47 23.48	16	W	43.65	25.41
Sept. 19	CF	3 3 51.38	23.08	17	W	43.59	25.72
Oct. 16	CF	...	25.73			3 48 43.65	63 53 25.57
Nov. 12	G	51.39	23.79	33 Tauri.			
Dec. 28	G	...	21.80	Jan. 18	CF	3 49 0.29	67 13 19.05
		3 3 51.39	70 47 23.58	γ^1 Eridani.			
17 Tauri.				Jan. 8	G	...	103 53 48.78
Aug. 22	G	3 36 48.27	66 19 0.44	17	G	...	50.26
η Tauri.				June 9	G	...	50.17
Jan. 8	G	...	66 19 5.69	Sept. 19	CF	3 51 41.11	51.08
17	G	...	5.65	Dec. 10	JS	...	50.23
18	CF	...	0.89			3 51 41.11	103 53 50.10
Aug. 22	G	...	4.82				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
36 Tauri.				62 Tauri.			
Dec. 6	W	^h ... ^m ... ^s ...	66° 16' 15.64	Dec. 23	W	^h 4 ^m 15 ^s 48	66° 1' 6.20
8	W	...	11.87	v Tauri.			
9	W	...	17.95				
10	W	...	14.29	Nov. 26	W	...	67 29 47.81
11	W	...	15.74	Dec. 1	W	...	53.85
12	W	...	14.54	2	W	...	(45.71)
13	W	...	15.26	12	W	...	51.57
14	W	...	14.62	13	W	...	52.75
16	W	...	15.30	14	W	...	51.56
17	W	...	16.26	16	W	...	52.77
19	W	...	15.19	17	W	...	52.55
		3 56 14	66 16 15.15	19	W	...	52.49
A Tauri.				4 18 10			
Oct. 16	CF	3 56 39.54	68 17 31.75				
e Tauri.				67 29 51.92			
o' Eridani.				e Tauri.			
Jan. 8	G	...	97 11 39.82	Jan. 18	CF	...	71 7 26.26
20	G	...	40.30	19	IF	...	25.80
Sept. 19	CF	4 5 13.76	40.89	20	CF	...	25.91
		4 5 13.76	97 11 40.34	Feb. 15	G	...	26.02
γ Tauri.				Sept. 19	CF	4 20 40.68	25.83
Sept. 19	CF	4 12 3.39	74 42 11.69	Dec. 11	W	...	26.00
δ Tauri.						4 20 40.68	71 7 25.97
Jan. 18	CF	4 15 5.68	72 46 46.20	α Tauri.			
				Jan. 18	CF	...	73 46 2.60
				19	IF	...	1.07
				20	G	4 28 7.10	1.31
				Feb. 15	G	...	0.77
				Mar. 30	CF	...	0.75

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Tauri—continued.</i>				<i>ϵ Tauri.</i>			
June 5	CF	^{h m s} ...	[°] 73 46 ['] 1·18	Feb. 15	G	^{h m s} 4 54 58·11	[°] ...
9	G	...	0·75	16	W	58·19	68 36 25·31
17	G	...	0·75			4 54 58·15	68 36 25·31
19	CF	...	0·56	<i>η Tauri.</i>			
20	G	...	0·50	Feb. 15	G	4 59 24·79	...
21	G	...	1·00	16	W	24·92	71 32 24·32
22	G	...	1·37			4 59 24·86	71 32 24·32
26	G	...	1·11	<i>ϵ Leporis.</i>			
Dec. 11	W	...	1·41	Jan. 26	W	...	112 33 19·79
12	W	...	0·80	30	IF	...	19·61
23	W	...	1·79	Dec. 30	G	...	20·20
		4 28 7·10	73 46 1·11			4 59 42	112 33 19·87
<i>B.A.C. 1454.</i>				<i>β Orionis.</i>			
Aug. 16	G	4 33 9·38	...	Jan. 19	IF	...	98 21 41·56
30	G	9·05	171 53 0·66	26	W	...	38·59
31	G	9·36	1·97	30	IF	...	38·25
		4 33 9·26	171 53 1·32	Feb. 4	IF	...	41·08
<i>B.A.C. 1454 S.P.</i>				16	W	...	40·75
Aug. 16	G	4 33 9·49	171 53 1·39	Mar. 30	T	...	40·27
31	G	9·21	2·28	June 6	G	...	40·87
		4 33 9·35	171 53 1·84	8	G	...	39·47
<i>τ Tauri.</i>				9	G	...	39·93
Dec. 1	W	...	67 18 25·56	10	JS	...	40·35
4	W	...	23·60	17	G	...	40·01
5	W	...	24·15	19	G	...	40·12
6	W	...	24·18	20	G	...	40·76
7	W	...	24·14	21	G	...	40·36
10	W	...	23·87	22	G	...	40·73
11	W	...	25·37	23	CF	...	40·19
		4 34 5	67 18 24·41				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Orionis—continued.				ζ Tauri.			
June 26	G	^h ^m ^s ...	98° 21' 40".43	Jan. 19	IF	^h ^m ^s 5 29 31".06	68° 56' 37".17
27	G	...	40".91	20	G	31".08	36".37
July 3	G	...	40".99	Dec. 12	W	31".19	36".06
Dec. 30	G	...	40".16			5 29 31".11	68 56 36".53
		5 8 0	98 21 40".29	ι 26 Tauri.			
β Tauri.				Jan. 19	IF	5 33 26".19	73 32 21".59
Dec. 12	W	5 17 42	61 30 38".33	20	G	26".18	22".42
δ Orionis.						5 33 26".19	73 32 22".01
Feb. 1	G	...	90 24 9".16	α Columbæ.			
4	IF	...	9".34	Jan. 8	G	...	124 8 53".27
5	G	...	8".20	30	W	...	53".47
9	IF	...	7".90	Feb. 1	G	...	52".68
10	G	5 25 3".56	8".65	4	IF	...	54".06
19	G	3".62	8".54	5	G	...	53".47
29	G	3".61	9".23	9	IF	...	50".79
Mar. 2	G	...	7".74	10	G	5 34 43".42	52".42
4	CF	...	9".39	12	G	...	53".71
		5 25 3".60	90 24 8".68	16	W	...	53".74
ϵ Orionis.				19	G	43".42	52".26
Feb. 1	G	...	91 17 27".74	29	G	43".47	54".71
5	G	...	28".57	Mar. 2	G	...	53".91
10	G	5 29 18".78	28".27	4	CF	...	53".31
12	G	...	29".51	June 17	G	...	53".37
19	G	18".75	27".19	20	G	...	53".86
29	G	18".81	28".91	22	G	...	53".75
Mar. 2	G	...	29".48	23	CF	...	54".26
4	CF	...	29".27			5 34 43".44	124 8 53".36
		5 29 18".78	91 17 28".62	χ^1 Orionis.			
				Dec. 12	W	5 46 19".89	69 45 9".13

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Orionis.				γ Geminorum.			
Jan. 20	G	$\begin{smallmatrix} h & m & s \\ 5 & 47 & 48\cdot68 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 82 & 37 & 16\cdot19 \end{smallmatrix}$	Jan. 20	G	$\begin{smallmatrix} h & m & s \\ 6 & 29 & 51\cdot27 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 73 & 29 & 17\cdot01 \end{smallmatrix}$
Feb. 4	IF	...	15·94	Feb. 17	CF	...	15·35
5	G	...	14·85	Mar. 14	G	...	14·30
6	W	...	14·62	15	IF	...	13·73
10	G	48·62	15·70	16	G	...	16·54
12	G	...	16·15	Dec. 13	G	...	17·11
17	CF	...	14·82	14	CF	...	14·62
19	G	48·72	15·42			$\begin{smallmatrix} h & m & s \\ 6 & 29 & 51\cdot27 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 73 & 29 & 15\cdot52 \end{smallmatrix}$
29	G	48·57	15·31	α Canis Majoris.			
Mar. 2	G	...	15·79	Feb. 4	IF	...	$\begin{smallmatrix} ^\circ & ' & '' \\ 106 & 31 & 54\cdot84 \end{smallmatrix}$
4	CF	...	14·84	6	W	...	54·71
15	IF	...	15·91	18	W	...	54·54
June 9	JS	...	15·53	Mar. 3	W	$\begin{smallmatrix} h & m & s \\ 6 & 39 & 9\cdot18 \end{smallmatrix}$	55·72
		$\begin{smallmatrix} h & m & s \\ 5 & 47 & 48\cdot65 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 82 & 37 & 15\cdot47 \end{smallmatrix}$	5	W	...	54·75
ν Orionis.				7	G	9·27	...
Jan. 20	G	$\begin{smallmatrix} h & m & s \\ 5 & 59 & 48\cdot39 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 75 & 13 & 5\cdot53 \end{smallmatrix}$	8	W	9·17	...
Feb. 11	IF	...	4·86	10	W	...	54·35
16	W	...	5·56	15	IF	9·03	54·42
Mar. 14	G	...	5·48	Apr. 7	T	...	53·67
Nov. 16	JS	...	6·92	9	T	...	54·72
		$\begin{smallmatrix} h & m & s \\ 5 & 59 & 48\cdot39 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 75 & 13 & 5\cdot67 \end{smallmatrix}$	12	IF	9·25	54·89
μ Geminorum.				13	CF	...	51·70
Jan. 20	G	$\begin{smallmatrix} h & m & s \\ 6 & 14 & 44\cdot00 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 67 & 25 & 10\cdot70 \end{smallmatrix}$	July 17	G	9·15	...
Mar. 11	G	...	11·93	18	G	9·12	...
14	G	...	11·04	20	G	9·09	...
15	IF	...	11·13	22	G	9·15	54·40
16	G	...	11·02	25	G	...	55·94
Apr. 12	IF	...	9·79	26	G	...	55·25
Dec. 13	G	...	11·21	27	G	...	54·55
14	CF	...	10·82	28	G	...	55·11
		$\begin{smallmatrix} h & m & s \\ 6 & 14 & 44\cdot00 \end{smallmatrix}$	$\begin{smallmatrix} ^\circ & ' & '' \\ 67 & 25 & 10\cdot96 \end{smallmatrix}$	31	G	...	55·03
				Aug. 1	G	...	55·42
				2	G	...	55·00
				7	G	...	56·02

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Canis Majoris—continued.				ζ Geminorum.			
Aug. 8	G	^h ^m ^s ...	100° 31' 55.51	Jan. 22	CF	^h ^m ^s 6 56 2.88	69° 13' 57.94
9	G	...	58.80	Feb. 17	CF	2.46	58.48
10	G	...	55.35	18	IF	...	59.39
14	G	...	55.26	Apr. 12	IF	2.51	58.66
15	G	...	56.67	13	CF	...	59.08
16	G	...	55.57	Nov. 16	JS	2.28	58.63
28	G	6 39 9.22	...	17	G	2.35	61.63
30	G	9.27	55.97			6 56 2.50	69 13 59.12
31	G	9.25	..	γ Canis Majoris.			
Sept. 8	G	9.22	55.11	Apr. 1	G	...	105 26 4.17
14	G	9.16	55.16	Dec. 13	G	...	4.63
Nov. 16	JS	9.19	55.60			6 57 36	105 26 4.40
Dec. 13	G	9.17	55.86				
		6 39 9.18	106 31 55.16	λ Geminorum.			
ζ Mensæ.				Feb. 17	CF	7 10 16.42	73 12 61.26
Apr. 1	G	6 51 19	170 39 54.58	Mar. 16	G	16.51	59.69
ϵ Canis Majoris.				17	W	16.48	60.38
Jan. 16	W	...	118 47 19.23	Apr. 12	IF	16.59	60.09
19	W	...	20.67	13	CF	...	60.91
Feb. 1	G	...	19.61			7 10 16.50	73 13 0.47
10	G	6 53 16.89	19.28	δ Geminorum.			
12	G	...	19.11	Jan. 22	CF	...	67 46 9.95
19	G	16.83	...	Nov. 16	JS	...	11.48
Mar. 12	W	...	20.54	17	G	7 11 59.83	12.92
29	T	...	20.38	Dec. 14	CF	...	12.04
30	T	...	20.63			7 11 59.83	67 46 11.60
Apr. 9	T	...	20.19				
Nov. 17	G	16.84	...				
Dec. 13	G	...	20.15				
		6 53 16.85	118 47 19.98				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
63 Geminorum.				<i>α Canis Minoris—continued.</i>			
Dec. 14	CF	^h 7 ^m 19 ^s 39·82	68 16 46·66	Sept. 12	G	^h 7 ^m 32 ^s 10·99	° ... '
6 Canis Minoris.				14	G	10·93	...
Feb. 18	IF	...	77 42 52·50	25	G	10·85	...
19	G	7 22 13·66	53·26	26	G	10·91	...
		7 22 13·66	77 42 52·88	Nov. 17	G	10·91	84 25 46·31
68 Geminorum.						7 32 10·87	84 25 44·54
Feb. 18	IF	...	73 52 59·29	β Geminorum.			
19	G	7 25 50·79	58·71	Jan. 22	CF	...	61 38 52·35
Mar. 16	G	50·79	59·62	Feb. 29	G	7 36 59·34	...
17	W	50·73	60·72			7 36 59·34	61 38 52·35
Dec. 14	CF	50·70	60·67	γ Geminorum.			
		7 25 50·75	73 52 59·80	Apr. 13	CF	...	71 9 38·30
α Canis Minoris.				14	W	7 38 14·80	39·64
Feb. 18	IF	...	84 25 44·93			7 38 14·80	71 9 38·97
19	G	7 32 10·93	44·51	6 Cancri.			
Mar. 2	G	10·71	45·04	Jan. 22	CF	7 55 10	61 49 35·19
4	CF	10·58	43·12	8 Cancri.			
16	G	10·86	44·12	Nov. 17	G	7 57 29·90	76 29 49·02
17	W	10·94	45·35	18	JS	...	49·94
29	T	...	44·94			7 57 29·90	76 29 49·48
30	G	...	45·29	12 Cancri.			
Apr. 12	IF	10·84	42·98	Jan. 22	CF	8 1 6·54	75 57 55·48
13	CF	...	43·78				
May 23	CF	...	44·12				
Aug. 28	G	10·93	...				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
15 Argûs.				η Canori.			
Feb. 9	W	^{h m s} ...	113° 54' 50 ^o 04	Mar. 14	G	^{h m s} ...	69° 5' 56 ^o 28
17	G	...	50 ^o 36	17	W	...	55 ^o 79
20	W	...	49 ^o 55	18	CF	...	56 ^o 56
Mar. 15	W	...	50 ^o 26			8 24 50	69 5 56 ^o 21
Apr. 7	W	...	51 ^o 21	ο ¹ Canori.			
9	W	...	50 ^o 91	Feb. 19	G	8 29 43 ^o 53	79 52 26 ^o 53
11	G	...	49 ^o 48	20	W	43 ^o 38	25 ^o 74
12	IF	...	50 ^o 28			8 29 43 ^o 46	79 52 26 ^o 14
Nov. 17	G	8 1 45 ^o 08	...	39 Canori.			
		8 1 45 ^o 08	113 54 50 ^o 26	Apr. 14	W	8 32 16 ^o 89	69 30 51 ^o 42
ζ Canori.				δ Canori.			
Mar. 17	W	8 4 24 ^o 59	71 56 40 ^o 30	Apr. 14	W	8 36 57 ^o 13	71 20 52 ^o 47
18	CF	24 ^o 73	40 ^o 14	ε Hydræ.			
Apr. 14	W	24 ^o 61	41 ^o 30	Feb. 20	W	...	83 5 2 ^o 06
Nov. 17	G	24 ^o 59	40 ^o 45	Mar. 18	CF	...	1 ^o 80
18	JS	...	41 ^o 70	22	W	...	2 ^o 87
		8 4 24 ^o 63	71 56 40 ^o 78			8 39 34	83 5 2 ^o 24
A Octantis.				α Canori.			
Apr. 28	G	8 17 45 ^o 29	178 28 9 ^o 52	Mar. 18	CF	8 51 3 ^o 08	77 37 2 ^o 50
May 2	G	...	7 ^o 31				
3	IF	...	4 ^o 16				
		8 17 45 ^o 29	178 28 7 ^o 00				
29 Canori.							
Feb. 19	G	8 21 2 ^o 08	75 20 28 ^o 45				
20	W	2 ^o 00	27 ^o 26				
		8 21 2 ^o 04	75 20 27 ^o 86				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
κ Cancri.				β Argûs S.P.			
Jan. 24	G	^h 9 ^m 0 ^s 22.78	78° 47' 11".31	Oct. 4	G	^h ... ^s ...	159° 9' 28".70
Mar. 19	IF	22.76	8.96	9	G	...	27.37
May 13	G	22.82	10.56	21	G	...	29.12
		9 0 22.79	78 47 10.28	24	G	...	28.18
						9 11 41	159 9 28.34
π^2 Cancri.				ϵ Argûs.			
Feb. 20	W	9 7 43.19	74 29 45.35	Apr. 16	IF	9 13 26.80	148 42 18.90
21	W	43.13	46.58				
		9 7 43.16	74 29 45.97				
δ_3 Cancri.				α Hydræ.			
Jan. 24	G	...	71 43 10.67	Jan. 24	G	...	98 4 12.31
Mar. 19	IF	...	7.19	Mar. 3	W	...	13.16
May 13	G	...	11.24	10	W	...	12.30
Dec. 17	JS	...	10.53	12	W	...	14.18
		9 11 23	71 43 9.91	30	G	...	14.21
				31	W	...	12.42
				Apr. 1	G	...	13.08
				7	W	...	13.09
				16	W	...	13.77
				19	W	...	12.51
				May 13	G	...	13.51
				Sept. 13	G	...	13.84
				15	CF	...	13.17
				Nov. 18	JS	...	13.96
						9 20 54	98 4 13.25
β Argûs.				ω Leonis.			
Oct. 4	G	...	159 9 25.02	Dec. 17	JS	9 21 10.43	80 21 8.17
9	G	...	25.65				
21	G	...	25.11				
23	G	...	25.26				
24	G	...	25.38				
26	G	...	25.17				
		9 11 41	159 9 25.27				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ξ Leonis.				π Leonis—continued.			
Feb. 20	W	^h 9 ^m 24 ^s 36.78	78° 5' 57.89	June 10	CF	^h ... ^m ... ^s ...	81° 18' 18.98
21	W	36.75	58.20	Dec. 17	JS	...	14.91
		9 24 36.77	78 5 58.05	18	CF	...	15.69
λ Leonis.						9 53 1	81 18 15.99
May 13	G	9 24 40.10	79 41 10.51	ι Sextantis.			
σ Leonis.				Feb. 21	W	9 59 40.65	83 43 35.15
Jan. 24	G	9 33 53.42	79 29 25.91	Λ Leonis.			
Apr. 16	IF	53.31	24.45	Mar. 19	IF	10 0 41.21	79 20 11.92
		9 33 53.37	79 29 25.18	20	W	...	12.74
ϵ Leonis.				May 13	G	41.27	13.23
June 24	JS	9 38 8	65 36 4.32	Dec. 17	JS	41.08	13.31
ι Leonis.				18	CF	41.04	13.39
Jan. 24	G	9 39 3.48	77 33 52.63			10 0 41.15	79 20 12.92
Apr. 16	IF	3.52	51.15	α Leonis.			
		9 39 3.50	77 33 51.89	Jan. 24	G	...	77 22 8.25
π Leonis.				26	IF	...	8.03
Feb. 17	G	...	81 18 15.63	Feb. 17	G	...	9.40
18	W	...	15.46	24	G	...	8.68
21	W	...	15.58	Mar. 21	G	...	8.79
Mar. 19	IF	...	16.21	Apr. 16	IF	...	8.04
Apr. 30	IF	...	16.03	21	IF	...	9.18
May 13	G	...	15.40	29	G	...	9.60
				30	IF	...	9.80
				June 23	JS	...	8.96
				24	JS	...	8.35

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Leonis—continued.</i>				<i>ρ Leonis.</i>			
Sept. 13	G	^{h m s}	77° 22' 9.07	Feb. 25	W	^{h m s} 10 25 38.94	° ... "
14	G	...	9.18	Apr. 16	IF	...	79 59 40.22
15	CF	...	9.54	June 10	CF	...	38.55
18	G	...	9.78	Dec. 18	CF	...	41.57
23	G	...	9.09			10 25 38.94	79 59 40.11
25	G	...	9.45	<i>36 Sextantis.</i>			
26	G	...	9.13	Mar. 20	W	...	86 47 51.13
28	CF	...	8.05	21	G	10 38 8.92	50.85
29	CF	...	8.58			10 38 8.92	86 47 50.99
		10 1 8	77 22 8.95	<i>η Argūs.</i>			
<i>γ¹ Leonis.</i>				Mar. 30	T	...	148 58 12.65
Feb. 24	G	10 12 28.37	69 28 18.77	Apr. 9	W	10 39 47.55	9.84
Apr. 16	IF	28.12	16.14	16	IF	47.50	9.32
May 25	G	...	16.81	June 10	CF	...	9.94
Dec. 18	CF	28.18	17.78	21	G	...	11.28
		10 12 28.22	69 28 17.38	July 4	G	47.76	12.33
<i>43 Leonis.</i>				12	G	...	11.67
Jan. 26	IF	10 15 53.72	82 46 2.42	14	G	...	12.39
<i>45 Leonis.</i>				21	G	...	12.17
Apr. 16	IF	10 20 27.90	79 32 41.66	22	G	...	11.74
June 10	CF	...	42.95	29	G	...	12.47
		10 20 27.90	79 32 42.31			10 39 47.60	148 58 11.44
<i>30 Sextantis.</i>				<i>ι Leonis.</i>			
Mar. 20	W	...	89 56 24.84	Mar. 21	G	10 42 6	78 44 7.56
21	G	10 23 20.31	26.67	<i>χ Leonis.</i>			
		10 23 20.31	89 56 25.76	May 10	W	10 58 0	81 55 45.26

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ν^3 Leonis.				ϵ Leonis.			
Apr. 18	G	$10^h 59^m 57^s \cdot 92$	$87^\circ 18' 22'' \cdot 82$	May 16	G	$11^h 23^m 22^s$	$92^\circ 15' 11'' \cdot 58$
δ Leonis.				ν Leonis.			
Feb. 27	IF	...	68 43 51 \cdot 13	Jan. 26	IF	...	90 4 19 \cdot 98
July 5	JS	...	51 \cdot 53	Feb. 24	G	...	22 \cdot 77
		II 6 52	68 43 51 \cdot 33	27	IF	...	23 \cdot 28
ϕ Leonis.				Mar. 21	G	...	22 \cdot 16
Mar. 21	G	II 9 44 \cdot 99	92 54 30 \cdot 46	22	IF	...	22 \cdot 42
Apr. 18	G	44 \cdot 85	29 \cdot 38	23	CF	...	22 \cdot 89
		II 9 44 \cdot 92	92 54 29 \cdot 92	May 16	G	...	22 \cdot 53
δ Crateris.				β Leonis.			
Mar. 8	W	...	104 2 32 \cdot 88	Jan. 26	IF	...	74 40 1 \cdot 96
10	W	...	32 \cdot 07	May 16	G	...	3 \cdot 06
12	W	...	33 \cdot 06			II 42 7	74 40 2 \cdot 51
15	W	...	33 \cdot 50	β Virginis.			
21	G	...	33 \cdot 77	Jan. 28	IF	II 43 36 \cdot 82	87 28 6 \cdot 53
22	W	...	32 \cdot 25	Feb. 24	G	36 \cdot 64	6 \cdot 82
23	CF	...	32 \cdot 98	Apr. 18	G	36 \cdot 64	6 \cdot 51
Apr. 9	W	...	34 \cdot 87			19	W	36$\cdot$63	7$\cdot$70
				11	G		
13	G	...	33 \cdot 46	10 Virginis.			
14	W	...	33 \cdot 22	Jan. 28	IF	12 2 43 \cdot 46	87 20 16 \cdot 06
16	W	...	33 \cdot 99	Apr. 18	G	43 \cdot 17	17 \cdot 13
18	G	...	33 \cdot 16			19	W	43$\cdot$16	17$\cdot$69
28	W	...	32 \cdot 37	11 Virginis.			
May 10	W	...	34 \cdot 03	Jan. 28	IF	12 2 43 \cdot 26	87 20 16 \cdot 96
				21	W	...	32 \cdot 71	$12$ Virginis.
June 3	CF	...	32 \cdot 02	Apr. 18	G	43 \cdot 17	17 \cdot 13
				9	G	...	33 \cdot 74	19	W	43$\cdot$16	17$\cdot$69
II 12 33				12 2 43 \cdot 26			
104 2 33 \cdot 17				87 20 16 \cdot 96			

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Corvi.				q Virginis—continued.			
Feb. 25	W	^h 12 ^m 3 ^s 8.04	111° 51' 45.67	Mar. 22	IF	^h 12 ^m 26 ^s 45.84	98° 42' 4.31
Mar. 22	IF	...	46.76	23	CF	45.82	1.83
23	CF	...	44.97	May 16	G	45.82	4.02
Apr. 12	W	...	45.49	17	IF	45.72	7.70
14	W	...	46.79			^h 12 ^m 26 ^s 45.77	98 42 4.29
21	W	...	45.86	β Corvi.			
May 2	G	...	46.62	Apr. 16	W	...	112 38 37.60
11	G	...	45.67	19	W	...	37.83
12	W	...	48.44	21	W	...	36.79
June 9	G	...	46.56	23	W	...	36.95
		^h 12 ^m 3 ^s 8.04	111 51 46.28	28	W	...	37.13
13 Virginis.				May 2	G	...	38.84
Mar. 22	IF	^h 12 ^m 11 ^s 42.06	90 1 50.09	11	G	...	38.10
23	CF	42.07	48.61	12	W	...	37.68
Apr. 14	W	42.14	...	Aug. 8	G	...	37.97
		^h 12 ^m 11 ^s 42.09	90 1 49.35	Nov. 1	G	...	38.06
η Virginis.				7	G	...	38.11
Feb. 24	G	...	89 54 38.89	9	G	...	37.49
25	W	^h 12 ^m 12 ^s 56.98	36.82	15	G	...	37.76
Apr. 21	W	...	37.25	Dec. 2	G	...	38.04
29	G	...	37.73	5	G	...	36.81
May 2	G	...	38.43	7	G	...	38.16
11	G	...	37.71	20	CF	...	38.28
16	G	...	37.04			^h 12 ^m 27 ^s 15	112 38 37.74
		^h 12 ^m 12 ^s 56.98	89 54 37.70	$\text{Lacaille } 5235.$			
q Virginis.				June 21	G	^h 12 ^m 30 ^s 45.31	179 3 6.61
Feb. 24	G	^h 12 ^m 26 ^s 45.57	98 42 5.05	22	G	...	7.29
25	W	45.84	2.81	23	G	45.66	5.27
				24	W	48.13	6.66

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
Lacaille 5235—continued.				50 Virginia.			
July 2	G	^h ^m ^s ...	179° 3' 6".09	Mar. 23	CF	^h ^m ^s 13 2 38.71	99° 36' 10".08
4	G	...	7.02	May 17	IF	38.39	10.34
6	G	12 30 45.96	7.80			13 2 38.55	99 36 10.21
		12 30 46.27	179 3 6.68	θ Virginia.			
Lacaille 5235 S.P.				Jan. 28	IF	...	94 48 41.92
June 20	G	12 30 42.13	179 3 7.83	Feb. 25	W	13 2 54.61	41.74
21	G	44.65	13.20	26	CF	...	40.48
23	G	45.56	11.78	Apr. 21	IF	...	43.48
July 5	G	47.90	...	28	W	...	42.55
6	G	41.83	7.56	May 10	W	...	41.17
		12 30 44.41	179 3 10.09	31	G	...	42.01
χ Virginia.				July 4	G	...	42.24
Jan. 28	IF	12 32 13.99	97 14 45.88	5	CF	...	41.54
Feb. 25	W	13.81	45.43	8	G	...	41.98
Apr. 20	CF	13.93	45.13			13 2 54.61	94 48 41.91
May 16	G	13.74	47.98	58 Virginia.			
17	IF	13.78	49.00	Mar. 23	CF	13 10 19.73	99 49 42.15
		12 32 13.85	97 14 46.68	α Virginia.			
γ' Virginia.				Jan. 28	IF	...	100 26 60.01
Feb. 27	W	12 34 46.17	...	30	W	...	59.16
Mar. 22	IF	46.20	90 42 9.93	Feb. 25	W	13 18 1.90	60.45
23	CF	46.12	8.72	26	CF	...	56.76
		12 34 46.16	90 42 9.33	Apr. 20	CF	...	58.47
ψ Virginia.				21	IF	...	60.85
Jan. 28	IF	12 47 17.16	98 47 56.85	23	W	...	59.36
				28	W	...	62.25

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>a Virginis—continued.</i>				89 Virginis.			
May 10	W	^h ^m ^s ...	100° 26' 59.93	Mar. 24	W	^h ^m ^s 13 42 29	107° 27' 17.69
17	IF	...	61.71	r Virginis.			
21	W	...	59.10	Apr. 22 G ... 87 47 43.52			
31	G	...	60.59	July 12 CF ... 44.37			
June 9	G	...	60.89	13 G ... 44.43			
July 12	CF	...	58.63	13 54 44 87 47 44.11			
Aug. 9	CF	...	59.12	κ Virginis.			
Nov. 1	G	...	60.38	Jan. 30 W ... 99 38 17.01			
7	G	...	60.13	Feb. 26 CF 14 5 38.69 18.63			
9	G	...	60.63	27 W 38.72 17.78			
11	G	...	60.26	July 12 CF 38.71 19.37			
17	G	13 18 2.06	...	13 G 38.64 18.58			
		13 18 1.98	100 26 59.93	14 5 38.69 99 38 18.27			
λ Virginis.				α Boötis.			
Jan. 30	W	...	99 27 45.71	Nov. 15 G ... 70 6 28.59			
Feb. 25	W	13 25 48.40	45.79	17 G 14 9 27.59 ...			
26	CF	48.52	46.38	14 9 27.59 70 6 28.59			
Apr. 20	CF	48.61	45.96	λ Virginis.			
21	IF	...	47.15	Jan. 30 W ... 102 44 33.62			
July 12	CF	48.56	46.09	Feb. 26 CF 14 11 45.31 32.30			
		13 25 48.52	99 27 46.18	27 W 45.24 34.21			
ζ Virginis.				Apr. 21 IF ... 34.66			
May 17	IF	...	89 53 56.94	22 G 45.24 35.88			
July 12	CF	...	55.68	July 12 CF 45.35 33.97			
		13 27 46	89 53 56.31	13 G 45.27 34.79			
85 Virginis.				14 11 45.28 102 44 34.20			
Mar. 24	W	13 38 16	105 4 57.28				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
z Libræ.				α^2 Centauri—continued.			
Apr. 21	IF	^{h m s} ...	101° 5' 26.87	Nov. 17	G	^{h m s} 14 30 22.90	150° 16' 20.63
22	G	14 16 6.81	26.40	18	G	...	20.10
		14 16 6.81	101 5 26.64	21	CF	...	19.47
z Octantis.				22	CF	...	21.78
July 12	CF	...	177 34 58.82	27	CF	...	20.95
14	CF	...	58.39	Dec. 1	CF	...	21.27
18	G	14 25 8.93	58.80	6	G	22.77	22.09
21	G	8.49	59.13			14 30 22.84	150 16 21.04
22	G	8.92	58.92	α^2 Centauri (Reflexion).			
29	G	9.48	59.74	Nov. 8	G	...	150 16 22.45
Aug. 3	G	...	59.39	9	G	...	22.04
		14 25 8.96	177 34 59.03	11	G	...	22.43
z Octantis S.P.				13	G	...	21.96
July 17	G	14 25 9.20	177 34 62.37	15	G	...	21.24
20	G	8.90	60.34	18	G	...	20.34
21	G	8.82	60.10	21	CF	...	24.05
22	G	8.31	60.17	22	CF	...	22.32
28	G	9.73	59.19	27	CF	...	22.35
31	W	7.04	62.48			14 30 23	150 16 22.13
		14 25 8.67	177 35 0.78	α^1 Centauri.			
α^2 Centauri.				Nov. 8	G	...	150 16 11.12
Nov. 8	G	...	150 16 20.94	9	G	...	11.13
9	G	...	20.67	11	G	...	11.49
11	G	...	20.18	13	G	...	13.72
13	G	...	22.77	15	G	...	12.71
15	G	...	21.68	17	G	...	12.12
				18	G	...	12.07
				22	CF	...	12.22
				27	CF	...	11.65
				Dec. 1	CF	...	12.79
				6	G	...	12.26
						14 30 23	150 16 12.12

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^1 Centauri (Reflexion).				ϵ^1 Libræ.			
Nov. 8	G	^h ^m ^s ...	150° 16' 12".74	Feb. 27	W	^h ^m ^s 15 4 28".44	109° 16' 27".07
9	G	...	13.50	May 20	G	28.76	29.22
11	G	...	15.06	July 14	CF	28.66	26.66
13	G	...	14.10			15 4 28".62	109 16 27".65
15	G	...	12.93	β Libræ.			
18	G	...	9.63	May 20	G	...	98 52 43".18
22	CF	...	12.44	July 13	G	...	42.90
27	CF	...	13.13	14	CF	...	40.73
		14 30 23	150 16 12.94	28	CF	...	42.17
ϵ Boötis.				Aug. 3	CF	...	43.54
Apr. 22	G	14 39 2.93	62 21 1.31	8	G	...	43.06
α^2 Libræ.				9	CF	...	42.63
Feb. 27	W	...	105 28 26.39	10	G	...	41.98
May 20	G	...	27.15			15 9 41	98 52 42.52
July 4	G	...	27.02	ζ^1 Libræ.			
8	G	...	27.82	Mar. 27	W	15 20 35.43	106 14 20.72
13	G	...	27.82	June 17	G	35.42	21.66
14	CF	...	26.02			15 20 35.43	106 14 21.19
28	G	...	27.20	γ Libræ.			
29	G	...	27.07	Mar. 27	W	15 27 55.37	104 19 58.09
Aug. 3	G	...	27.87	Apr. 22	G	55.31	60.35
8	G	...	28.75	23	W	55.43	58.48
9	CF	...	27.06	June 17	G	55.37	59.35
		14 43 22	105 28 27.29	Aug. 10	G	55.49	59.15
ψ Boötis.						15 27 55.39	104 19 59.08
July 14	CF	14 58 37	62 31 11.64				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
κ Libræ.				B.A.C. 5383.			
Apr. 22	G	$15^h 34^m 6^s.93$	$109^\circ 14' 6''.22$	Mar. 27	W	$16^h 4^m 4^s.59$	$109^\circ 5' 35''.13$
23	W	6.89	5.40	ν Scorpil.			
		$15 34 6.91$	$109 14 5.81$	Mar. 27	W	$16 4 5.70$	$109 6 13.10$
α Serpentis.				Apr. 23	W	5.71	13.56
Mar. 28	CF	$15 37 34.22$	$83 8 36.46$	May 20	G	5.81	18.63
June 17	G	...	37.65	21	IF	5.72	14.82
		$15 37 34.22$	$83 8 37.06$	Oct. 5	G	5.82	...
δ^1 Scorpil.						$16 4 5.75$	$109 6 15.03$
July 14	CF	$15 52 17.68$	$112 13 49.10$	δ Ophiuchi.			
15	CF	...	54.12	Mar. 28	CF	$16 7 13.34$	$93 20 28.69$
		$15 52 17.68$	$112 13 51.61$	May 21	IF	...	27.02
β^1 Scorpil.				June 17	G	...	27.66
Feb. 29	G	...	$109 25 48.95$	18	CF	...	27.25
Mar. 27	W	...	46.95	July 15	CF	...	28.41
28	CF	$15 57 32.04$	47.50			$16 7 13.34$	$93 20 27.81$
Apr. 23	W	...	47.38	B.A.C. 5412.			
May 20	G	...	48.49	Aug. 16	G	$16 11 2$	$176 5 30.46$
21	IF	...	49.64	σ Scorpil.			
June 17	G	...	48.27	Mar. 27	W	$16 12 55.53$	$115 15 45.72$
18	CF	...	47.37	28	CF	55.61	45.91
July 14	CF	...	45.28	Apr. 23	W	55.60	46.02
29	G	...	48.40	June 17	G	55.63	47.10
Oct. 5	G	...	48.08	18	CF	55.64	47.72
10	CF	...	47.57			$16 12 55.60$	$115 15 46.49$
		$15 57 32.04$	$109 25 47.82$				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Scorpil.				κ Ophiuchi.			
Mar. 27	W	h m s ...	° ' " 116 7 34.55	Mar. 28	CF	h m s 16 51 14.00	° ' " 80 24 36.90
28	CF	16 21 4.32	36.54	Apr. 24	G	...	39.11
Apr. 23	W	...	35.34	May 21	IF	...	38.13
June 17	G	...	36.03	Aug. 31	G	...	39.39
18	CF	...	36.10			16 51 14.00	80 24 38.38
Oct. 5	G	...	36.19	η Ophiuchi.			
7	CF	...	35.18	Apr. 24	G	17 2 34.66	105 33 11.64
10	CF	...	36.46	25	CF	34.83	7.52
29	JS	...	35.19	May 21	IF	34.75	11.57
Nov. 2	JS	...	35.87	June 18	CF	34.83	10.10
3	JS	...	34.80	19	G	34.60	10.42
5	JS	...	35.90	July 16	G	34.78	11.40
8	JS	...	35.92	Sept. 9	G	34.85	9.95
Dec. 12	G	...	34.76	Oct. 5	G	34.94	10.66
13	G	...	35.65			17 2 34.78	105 33 10.41
14	G	...	34.75	α Herculis.			
18	G	...	35.05	Mar. 28	CF	17 8 26.60	75 27 5.66
20	G	...	35.60	θ Ophiuchi.			
22	G	...	36.13	Mar. 28	CF	17 13 39.62	114 51 35.70
23	G	...	34.90	Apr. 24	G	...	36.66
26	CF	...	35.80	25	CF	...	35.62
27	CF	...	35.86	May 21	IF	...	37.20
28	G	...	36.02	ζ Herculis.			
29	G	...	36.03	Mar. 28	CF	16 36 9.81	58 8 54.11
30	G	...	35.91				
		16 21 4.32	116 7 35.62				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>θ Ophiuchi—continued.</i>				<i>σ Octantis.</i>			
June 18	CF	^h ... ^m ... ^s ...	114° 51' 37.77	Mar. 27	W	^h ... ^m ... ^s ...	179° 16' 42.61
19	G	...	35.77	Sept. 14	G	17 55 22.01	43.30
Aug. 31	G	...	36.95			17 55 22.01	179 16 42.96
Sept. 9	G	...	36.23	<i>σ Octantis S.P.</i>			
		17 13 39.62	114 51 36.49	Feb. 2	W	...	179 16 43.52
<i>δ Ophiuchi.</i>				5	G	...	46.21
Mar. 28	CF	17 18 4.00	114 2 45.95	6	W	...	42.91
<i>α Ophiuchi.</i>				9	W	...	44.33
Apr. 24	G	...	77 20 17.57	10	G	...	45.16
25	CF	...	14.87	12	G	...	44.96
May 23	CF	...	13.73	16	W	...	45.06
June 19	G	...	17.67	17	CF	...	46.18
July 16	G	...	16.83	19	G	...	45.47
		17 28 37	77 20 16.13	20	W	...	45.07
<i>μ Herculis.</i>				27	W	...	43.53
May 23	CF	17 41 8	62 11 54.93	29	G	...	44.56
<i>4 Sagittarii.</i>				Mar. 2	G	...	44.87
May 23	CF	17 51 29.66	113 47 56.80	4	CF	...	46.59
July 17	G	29.43	59.73	Sept. 14	G	17 55 22.15	44.10
		17 51 29.55	113 47 58.27			17 55 22.15	179 16 44.83
<i>μ Sagittarii.</i>				Apr. 25	CF	...	111 5 27.13
				May 23	CF	...	25.82
				June 19	G	...	27.78
				20	CF	...	26.52
				July 16	G	...	26.47
				17	G	...	27.88
				Aug. 14	G	18 5 37.69	...
				Sept. 14	G	37.76	...
						18 5 37.73	111 5 26.93

248 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
15 Sagittarii.				ζ Aquilæ.			
Aug. 14	G	18 ^h 7 ^m 6 ^s 19	110° 45' 54".66	Aug. 15	CF	18 ^h 59 ^m 9 ^s 45	76° 20' 10".96
21 Sagittarii.				π Sagittarii.			
June 19	G	18 17 15.07	110 36 38.30	July 17 18	G	19 1 40.55	111 14 11.08
20	CF	15.11	37.60		G	40.43	10.80
Aug. 14	G	15.04	40.06			19 1 40.49	111 14 10.94
		18 17 15.07	110 36 38.65	δ Sagittarii.			
λ Sagittarii.				Aug. 14 15	G	19 9 40.66	109 11 30.03
Apr. 25	CF	18 19 34.66	115 29 36.56		CF	40.69	29.94
Sept. 9	G	34.63	35.34			19 9 40.68	109 11 29.99
		18 19 34.65	115 29 35.95	ω Aquilæ.			
Scuti 2 Hev.				July 17 18	G	...	78 38 50.09
June 19	G	18 21 26.81	104 38 56.28		G	...	50.03
20	CF	26.90	55.53			19 11 26	78 38 50.06
		18 21 26.86	104 38 55.91	ρ Sagittarii.			
ξ ² Sagittarii.				Aug. 14 15	G	19 13 47.06	108 5 60.32
May 23	CF	18 49 37.18	111 16 53.41		CF	47.04	59.98
July 17	G	37.00	55.66			19 13 47.05	108 6 0.15
18	G	36.88	54.49	δ Aquilæ.			
		18 49 37.02	111 16 54.52	June 20	CF	19 18 38	87 9 12.32
ο Sagittarii.							
May 23	CF	18 56 32.01	111 56 13.06				
24	CF	32.02	13.56				
		18 56 32.02	111 56 13.31				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
λ^2 Sagittarii.				β Aquilæ.			
Aug. 14	G	$19^{\text{h}} 28^{\text{m}} 25^{\text{s}}.76$	$115^{\circ} 10' 49''.69$	May 24	CF	$19^{\text{h}} 48^{\text{m}} 38^{\text{s}}.03$	$83^{\circ} 55' 48''.19$
ϵ Sagittarii.				Aug. 14	G	38.00	50.22
June 20	CF	$19 34 44.34$	$106 26 22.30$	15	CF	37.96	49.12
Oct. 9	G	44.30	22.18	Oct. 9	G	...	48.80
f Sagittarii.				α^1 Capricorni.			
		$19 34 44.32$	$106 26 22.24$	May 24	CF	$20 10 6.72$	102 56
γ Aquilæ.				α^2 Capricorni.			
June 20	CF	$19 38 25.65$	$110 5 4.33$	May 24	CF	$20 10 30.40$	$102 57 49.38$
21	G	25.63	4.95	25	G	30.41	48.79
Oct. 9	G	25.60	5.80	June 21	G	...	48.57
		$19 38 25.63$	$110 5 5.03$	July 18	G	...	48.67
α Aquilæ.				19	CF	...	47.49
May 24	CF	$19 39 47.77$	$79 42 54.39$	Aug. 15	CF	30.37	46.82
Aug. 14	G	47.70	55.94	16	G	...	49.08
15	CF	47.71	55.83	29	CF	...	47.86
		$19 39 47.73$	$79 42 55.39$	Sept. 1	CF	...	47.09
β Capricorni.				Oct. 9	G	...	48.71
May 24	CF	$19 44 8.66$	$81 29 15.18$			$20 10 30.39$	$102 57 48.25$
June 21	G	...	17.44	ρ Capricorni.			
Aug. 14	G	8.91	17.58	May 24	CF	$20 21 6.11$	$108 15 39.95$
15	CF	8.70	17.08	25	G	6.09	37.50
		$19 44 8.76$	$81 29 16.82$	June 21	G	...	39.39
				22	CF	...	37.49

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>ρ Capricorni—continued.</i>				<i>B Octantis S.P.</i>			
July 18	G	^h ... ^m ... ^s ...	108° 15' 38.86	Apr. 28	G	^h 20 ^m 44 ^s 53.82	179° 28' 0.83
19	CF	...	36.97	29	G	59.62	1.11
Aug. 15	CF	20 21 6.34	38.84	May 2	G	...	1.12
29	CF	...	36.74	6	G	...	0.49
Sept. 1	CF	...	36.81			20 44 56.72	179 28 0.89
		20 21 6.18	108 15 38.06	<i>μ Aquarii.</i>			
<i>τ Capricorni.</i>				May 25	G	20 45 19.05	99 29 27.50
Aug. 15	CF	20 31 40.03	105 25 44.82	Sept. 13	CF	19.04	26.12
16	G	40.01	45.37	Oct. 9	G	18.92	28.38
		20 31 40.02	105 25 45.10	10	CF	...	27.95
<i>ε Aquarii.</i>						20 45 19.00	99 29 27.49
June 21	G	20 40 18.66	99 59 27.84	<i>ν Aquarii.</i>			
22	CF	18.68	28.67	May 25	G	21 2 11.00	101 55 12.10
Aug. 15	CF	18.62	28.42	Sept. 13	CF	11.04	11.46
16	G	18.72	28.75	Nov. 7	G	11.12	11.35
Oct. 9	G	18.72	27.45			21 2 11.05	101 55 11.64
10	CF	...	27.24	<i>β Aquarii.</i>			
		20 40 18.68	99 59 28.06	May 25	G	21 24 23.93	...
<i>B Octantis.</i>				June 22	CF	...	96 10 5.39
Apr. 28	G	20 44 56.49	179 27 58.55	July 19	CF	...	1.21
29	G	62.21	59.48	20	G	...	2.96
May 3	G	...	59.35	Aug. 16	G	...	2.96
		20 44 59.35	179 27 59.13	Sept. 13	CF	...	1.43
				Oct. 11	G	...	2.62
				28	G	...	0.59
				Nov. 7	G	...	3.15
						21 24 23.93	96 10 2.54

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ξ Aquarii.				θ Aquarii.			
June 22	CF	^{h m s} 21 30 30.65	98° 27' 44".04	May 25	G	^{h m s} 22 9 39.33	98° 27' 33".24
July 20	G	30.64	43.56	June 24	CF	...	32.08
Aug. 16	G	30.80	44.65	July 20	G	...	31.78
Oct. 11	G	30.53	43.66	21	CF	39.41	31.50
Nov. 7	G	30.66	44.45	Sept. 13	CF	...	30.83
		^{h m s} 21 30 30.66	98 27 44.07	14	G	39.29	32.98
ε Pegasi.				Oct. 11	G	...	32.91
Oct. 25	CF	...	80 44 47.28	Nov. 7	G	...	32.21
28	G	...	48.76	8	CF	...	31.31
		^{h m s} 21 37 30	80 44 48.02			^{h m s} 22 9 39.34	98 27 32.09
α Aquarii.				γ Aquarii.			
Mar. 29	G	...	90 58 43.66	July 20	G	^{h m s} 22 14 37.85	92 4 15.88
30	G	...	43.74	21	CF	37.99	15.20
July 20	G	...	43.99	Oct. 11	G	37.94	17.61
21	CF	^{h m s} 21 58 47.75	42.66	Nov. 7	G	37.86	17.58
Sept. 13	CF	...	44.01			^{h m s} 22 14 37.91	92 4 16.57
Nov. 7	G	...	45.95	ζ Aquarii (as one mass).			
		^{h m s} 21 58 47.75	90 58 44.00	June 24	CF	^{h m s} 22 21 49.83	90 42 51.73
C Octantis				Aug. 18	G	49.86	51.84
May 25	G	^{h m s} 22 4 31.25	176 39 13.91			^{h m s} 22 21 49.85	90 42 51.79
29	G	...	14.06	σ Aquarii.			
		^{h m s} 22 4 31.25	176 39 13.99	Sept. 13	CF	^{h m s} 22 23 26.94	101 22 21.36
C Octantis S.P.				14	G	26.82	21.40
May 25	G	^{h m s} 22 4 31.31	176 39 15.33			^{h m s} 22 23 26.88	101 22 21.38

252 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Aquarii.				β Piscium.			
June 24	CF	^h ^m ^s ...	90° 49' 1".75	Dec. 5	G	^h ^m ^s 22 56 57.47	86° 54' 38".51
July 21	CF	22 28 22.09	...	6	CF	57.45	39.30
Aug. 18	G	...	3.14			22 56 57.46	86 54 38.91
Oct. 11	G	...	2.05	α Pegasi.			
Nov. 8	CF	...	1.20	July 21	CF	22 57 59.27	75 31 30.88
		22 28 22.09	90 49 2.04	Sept. 15	CF	59.31	29.87
α Piscis Australis.				Nov. 2	CF	...	32.68
Jan. 6	G	...	120 20 31.06	4	G	...	31.82
Mar. 16	G	...	31.42	7	JS	...	33.26
17	G	...	29.94	11	JS	...	35.36
21	G	...	30.43			22 57 59.29	75 31 32.31
22	G	...	30.79	τ Octantis.			
28	G	...	29.36	June 1	G	23 5 55.27	178 13 37.58
29	G	...	31.09	2	G	55.15	36.06
30	G	...	31.10	4	G	56.50	36.50
Apr. 3	G	...	30.75	5	G	...	40.56
July 21	CF	22 50 7.71	28.36	8	G	54.43	42.56
Aug. 18	G	...	29.31	9	G	57.30	39.52
Sept. 14	G	7.85	...	10	G	55.15	39.92
15	CF	7.60	29.09			23 5 55.63	178 13 38.96
Oct. 25	CF	...	29.24	τ Octantis S.P.			
Nov. 2	CF	...	30.24	Mar. 8	W	...	178 13 39.22
4	G	...	31.06	10	W	...	37.87
7	JS	...	32.67	15	W	...	37.43
Dec. 5	G	7.82	29.84	22	W	...	38.95
6	CF	7.86	30.38				
		22 50 7.77	120 20 30.34				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
τ Octantis S.P.— <i>continued.</i>				κ Piscium— <i>continued.</i>			
Apr. 9	W	^{h m s} ...	178° 13' 40".43	Aug. 18	G	^{h m s} ...	89° 29' 17".74
11	G	...	39.17	19	CF	23 19 57.61	17.70
12	W	...	39.02	Sept. 15	CF	57.74	16.66
13	G	...	38.53	Nov. 9	G	...	17.67
14	W	...	39.41			23 19 57.67	89 29 17.46
16	W	...	38.41	ϵ Piscium.			
28	W	23 5 56.80	36.65	June 24	CF	...	85 6 37.23
June 2	G	55.84	39.13	July 23	CF	23 32 57.55	36.73
3	CF	53.06	38.51	Aug. 18	G	...	37.14
4	G	56.44	38.42	19	CF	57.34	36.46
8	G	55.20	38.57	Sept. 14	G	57.41	37.98
9	G	55.85	38.61	Dec. 7	G	57.50	36.20
10	CF	56.39	40.36			23 32 57.45	85 6 36.96
		23 5 55.65	178 13 38.75	δ Sculptoris.			
γ Piscium.				July 23	CF	23 41 50.18	118 52 54.29
June 24	CF	...	87 27 34.71	Nov. 22	JS	...	54.73
July 21	CF	23 10 7.03	35.39	Dec. 6	CF	50.20	54.25
22	G	6.89	36.63			23 41 50.19	118 52 54.42
Aug. 19	CF	7.03	35.19	ω Piscium.			
Sept. 14	G	7.03	36.72	July 22	G	23 52 19.82	83 53 21.32
15	CF	6.96	34.31	23	CF	19.71	20.42
Nov. 8	CF	...	35.07	Aug. 19	CF	19.75	22.27
9	G	...	36.58	Sept. 15	CF	19.83	21.82
11	JS	...	37.16	Nov. 9	G	...	21.16
Dec. 5	G	6.98	34.45	Dec. 6	CF	19.75	20.55
6	CF	6.91	35.68	7	G	19.79	21.06
		23 10 6.98	87 27 35.63			23 52 19.78	83 53 21.23
κ Piscium.							
July 21	CF	23 19 57.72	89 29 16.93				
22	G	57.61	18.07				



ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

CATALOGUE

OF

MEAN RIGHT ASCENSIONS

AND

MEAN DECLINATIONS,

FOR

1864'0,

OF

STARS OBSERVED IN THE YEAR 1864.

No	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°o.	Annual Variation 1864°o.
					h m s	s			° ' "	"
1	γ Pegasi	3°00'00	7	0	6 14'14	+3°081	0°00	7	+14 25 39'98	+20°04
2	α Octantis	7°20'47	3	0	13 15'10	-1°950	0°47	3	-89 7 8'78	+20°02
3	α Octantis S.P....	... 0°47	2		12'96	...	0°47	3	10'37	...
4	δ Piscium	5°60'67	4	0	13 36'20	+3°081	0°67	4	+ 7 26 6'31	+20°04
5	β Hydri	2°90'00	27	0	18 33'00	+3°285	0°00	25	-78 1 12'56	+20°25
6	β Hydri S.P.....	... 0°00	27		32'99	...	0°00	16	13'91	...
7	ι Ceti	6°20'00	3	0	23 5'95	+3°061	0°00	3	- 4 42 31'43	+19°95
8	β Ceti.....	2°10'00	6	0	36 45'67	+3°015	0°00	19	-18 44 0'55	+19°83
9	δ Piscium	4°60'82	4	0	41 37'73	+3°105	0°82	4	+ 6 50 40'80	+19°69
10	ϵ Piscium	4°50'00	4	0	55 53'25	+3°106	0°00	6	+ 7 9 27'12	+19°50
11	ϵ Piscium	5°70'56	1	1	1 21'97	+3°083	0°56	1	+ 4 55 46'98	+19°17
12	ζ^1 Piscium	5°20'86	1	1	6 37'87	+3°126	0°86	1	+ 6 51 17'07	+19°16
13	ζ^2 Piscium.....	7°70'86	1	1	6 39'11	+3°126	0°86	1	+ 6 51 32'00	+19°16
14	θ^1 Ceti	3°80'00	3	1	17 13'64	+2°996	0°00	6	- 8 53 8'54	+18°73
15	η Piscium	3°70'00	1	1	24 12'58	+3°197	0°00	3	+14 38 37'22	+18°71
16	ν Piscium	4°70'00	2	1	34 21'43	+3°114	0°00	4	+ 4 47 53'92	+18°38
17	α Piscium	4°40'82	4	1	38 12'90	+3°158	0°82	4	+ 8 28 20'39	+18°30
18	β Arietis	2°8 ...	...	1	47 8	+3°298	0°00	3	+20 8 30'18	+17°80
19	ϵ Arietis.....	5°20'86	1	1	49 55'56	+3°264	0°86	1	+17 9 9'36	+17°78
20	B.A.C. 632.....	7°00'86	1	1	56 15'31	+3°278	0°86	1	+17 35 54'33	+17°53
21	α Arietis	2°00'00	1	1	59 30'76	+3°365	0°00	2	+22 49 3'74	+17°26
22	67 Ceti	5°5 ...	...	2	10 12	+2°987	0°00	2	- 7 2 59'98	+16°80
23	ξ^2 Ceti	4°40'00	1	2	20 55'90	+3°180	0°00	5	+ 7 50 56'91	+16°38
24	31 Arietis	5°60'94	2	2	29 13'16	+3°260	0°94	2	+11 51 21'93	+15°88
25	γ Ceti.....	3°00'00	2	2	36 15'37	+3°100	0°00	6	+ 2 39 39'27	+15°42
26	38 Arietis	5°20'89	3	2	37 33'24	+3°258	0°89	3	+11 52 18'06	+15°43
27	π Arietis	5°60'69	3	2	41 42'48	+3°334	0°69	3	+16 53 47'62	+15°27
28	ϵ Arietis	4°60'58	5	2	51 26'44	+3°415	0°58	5	+20 47 38'49	+14°70
29	α Ceti.....	2°70'00	4	2	55 10'37	+3°127	0°00	9	+ 3 33 15'43	+14°40
30	δ Arietis	4°50'00	2	3	3 51'39	+3°416	0°00	5	+19 12 36'42	+13°95

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864 ^o .	Annual Variation 1864 ^o .	Fraction of Year.	No. of Obs.	Mean Dec. 1864 ^o .	Annual Variation 1864 ^o .
					h m s	s			o ' "	"
31	17 Tauri.....	3·8	0·64	1	3 36 48·27	+3·548	0·64	1	+23 40 59·56	+11·70
32	η Tauri	3·0	0·00	1	3 39 24·32	+3·551	0·00	12	+23 40 56·12	+11·51
33	W.B. (2) III. 1046	8·3	0·96	3	3 48 43·65	+3·623	0·96	3	+26 6 34·43	+10·86
34	33 Tauri.....	7·0	0·05	1	3 49 0·29	+3·549	0·05	1	+22 46 40·95	+10·83
35	γ ¹ Eridani	3·1	0·00	1	3 51 41·11	+2·795	0·00	5	-13 53 50·10	+10·55
36	36 Tauri.....	6·0	...	...	3 56 14	+3·576	0·95	11	+23 43 44·85	+10·30
37	A Tauri	4·5	0·79	1	3 56 39·54	+3·534	0·79	1	+21 42 28·25	+10·22
38	o ¹ Eridani	4·1	0·00	1	4 5 13·76	+2·923	0·00	3	- 7 11 40·34	+ 9·71
39	γ Tauri	3·9	0·71	1	4 12 3·39	+3·405	0·71	1	+15 17 48·31	+ 9·08
40	δ Tauri	4·0	0·05	1	4 15 5·68	+3·450	0·05	1	+17 13 13·80	+ 8·84
41	62 Tauri.....	6·2	...	...	4 15 48	+3·606	0·97	1	+23 58 53·80	+ 8·79
42	v Tauri	4·6	...	...	4 18 10	+3·579	0·94	8	+22 30 8·08	+ 8·59
43	ε Tauri	3·7	0·00	1	4 20 40·68	+3·494	0·00	6	+18 52 34·03	+ 8·39
44	α Tauri	1·0	0·00	1	4 28 7·10	+3·434	0·00	16	+16 13 58·89	+ 7·64
45	B.A.C. 1454	5·8	0·65	3	4 33 9·26	-5·640	0·67	2	-81 53 1·32	+ 7·42
46	B.A.C. 1454 S.P. ...	...	0·64	2	9·35	...	0·64	2	1·84	...
47	τ Tauri	4·4	...	...	4 34 5	+3·591	0·93	7	+22 41 35·59	+ 7·33
48	ι Tauri ...	4·7	0·13	2	4 54 58·15	+3·579	0·13	1	+21 23 34·69	+ 5·57
49	m Tauri	5·1	0·13	2	4 59 24·86	+3·540	0·13	1	+18 27 35·68	+ 5·26
50	ε Leporis	3·3	...	...	4 59 42	+2·536	0·00	3	-22 33 19·87	+ 5·15
51	β Orionis	1·0	...	...	5 8 0	+2·879	0·00	20	- 8 21 40·29	+ 4·52
52	β Tauri	1·9	...	...	5 17 42	+3·787	0·00	1	+28 29 21·67	+ 3·50
53	δ Orionis	Var.	0·00	3	5 25 3·60	+3·061	0·00	9	- 0 24 8·68	+ 3·04
54	ε Orionis	1·8	0·00	3	5 29 18·78	+3·040	0·00	8	- 1 17 28·62	+ 2·68
55	ζ Tauri	3·0	0·35	3	5 29 31·11	+3·582	0·35	3	+21 3 23·47	+ 2·64
56	126 Tauri	4·9	0·05	2	5 33 26·19	+3·464	0·05	2	+16 27 37·99	+ 2·31
57	α Columbae	2·7	0·00	3	5 34 43·44	+2·172	0·00	17	-34 8 53·36	+ 2·16
58	χ ¹ Orionis	4·7	0·95	1	5 46 19·89	+3·549	0·95	1	+20 14 50·87	+ 1·10
59	α Orionis	Var.	0·00	4	5 47 48·65	+3·246	0·00	13	+ 7 22 44·53	+ 1·09
60	ν Orionis	4·4	0·00	1	5 59 48·39	+3·425	0·00	5	+14 46 54·33	0·00

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°o.	Annual Variation 1864°o.
					^h ^m ^s	^s			[°] ['] ["]	["]
61	μ Geminorum....	3·2	0·00	1	6 14 44·00	+ 3·631	0·00	8	+22 34 49·04	— 1·39
62	γ Geminorum....	2·0	0·00	1	6 29 51·27	+ 3·467	0·00	7	+16 30 44·48	— 2·64
63	α Canis Majoris...	1·4	0·00	16	6 39 9·18	+ 2·644	0·00	31	—16 31 55·16	— 4·61
64	ζ Mensæ	5·6	...	...	6 51 19	— 4·859	0·25	1	—80 39 54·58	— 4·45
65	ϵ Canis Majoris...	1·5	0·00	3	6 53 16·85	+ 2·356	0·00	10	—28 47 19·98	— 4·60
66	ζ Geminorum....	Var.	0·45	5	6 56 2·50	+ 3·563	0·38	7	+20 46 0·88	— 4·85
67	γ Canis Majoris...	4·1	...	...	6 57 36	+ 2·713	0·00	2	—15 26 4·40	— 4·99
68	λ Geminorum....	3·6	0·21	4	7 10 16·50	+ 3·453	0·22	5	+16 46 59·53	— 6·09
69	δ Geminorum....	3·7	0·00	1	7 11 59·83	+ 3·589	0·00	4	+22 13 48·40	— 6·19
70	ϵ_3 Geminorum...	5·3	0·95	1	7 19 39·82	+ 3·568	0·95	1	+21 43 13·34	— 6·93
71	δ Canis Minoris...	5·0	0·13	1	7 22 13·66	+ 3·345	0·13	2	+12 17 7·12	— 7·04
72	ϵ_8 Geminorum...	5·0	0·37	4	7 25 50·75	+ 3·429	0·32	5	+16 7 0·20	— 7·34
73	α Canis Minoris...	0·5	0·00	12	7 32 10·87	+ 3·145	0·00	12	+ 5 34 15·46	— 8·87
74	β Geminorum....	1·1	0·00	1	7 36 59·34	+ 3·682	0·00	1	+28 21 7·65	— 8·29
75	g Geminorum....	5·1	0·28	1	7 38 14·80	+ 3·481	0·28	2	+18 50 21·03	— 8·38
76	δ Cancri.....	5·0	...	...	7 55 10	+ 3·697	0·00	1	+28 10 24·81	— 9·70
77	δ Cancri.....	5·1	0·88	1	7 57 29·90	+ 3·349	0·88	2	+13 30 10·52	— 9·90
78	ι_2 Cancri.....	6·5	0·06	1	8 1 6·54	+ 3·360	0·06	1	+14 2 4·52	—10·13
79	ι_5 Argûs.....	2·9	0·00	1	8 1 45·08	+ 2·553	0·00	8	—23 54 50·26	—10·10
80	ζ Cancri.....	5·0	0·40	4	8 4 24·63	+ 3·449	0·49	5	+18 3 19·22	—10·46
81	Δ Octantis.....	7·8	0·32	1	8 17 45·29	—38·217	0·33	3	—88 28 7·00	—11·46
82	ϵ_9 Cancri.....	5·9	0·14	2	8 21 2·04	+ 3·355	0·14	2	+14 39 32·14	—11·58
83	η Cancri.....	5·5	...	...	8 24 50	+ 3·480	0·00	3	+20 54 3·79	—11·89
84	ϵ^1 Cancri.....	5·9	0·14	2	8 29 43·46	+ 3·257	0·14	2	+10 7 33·86	—12·20
85	ϵ_3 Cancri.....	7·0	0·28	1	8 32 16·89	+ 3·458	0·28	1	+20 29 8·58	—12·35
86	δ Cancri.....	4·3	0·28	1	8 36 57·13	+ 3·419	0·28	1	+18 39 7·53	—12·91
87	ϵ Hydræ.....	3·6	...	...	8 39 34	+ 3·183	0·00	3	+ 6 54 57·76	—12·89
88	α Cancri.....	4·3	0·21	1	8 51 3·08	+ 3·289	0·21	1	+12 22 57·50	—13·64
89	κ Cancri.....	5·0	0·21	3	9 0 22·79	+ 3·256	0·21	3	+11 12 49·72	—14·20
90	π^2 Cancri.....	5·6	0·14	2	9 7 43·16	+ 3·322	0·14	2	+15 30 14·03	—14·63

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°0.	Annual Variation 1864°0.
					h m s	s			° ' "	"
91	83 Canori	6·6	...	...	9 11 23	+ 3'359	0·00	4	+18 16 50·09	—15·01
92	β Argûs.....	1·7	...	...	9 11 41	+ 0'686	0·80	6	—69 9 25·27	—14·80
93	β Argûs S.P. ....	...	...	...	...	...	0·79	4	28·34	...
94	ε Argûs	2·2	0·00	1	9 13 26·80	+ 1'601	0·00	1	—58 42 18·90	—14·96
95	α Hydræ	2·0	...	...	9 20 54	+ 2'949	0·00	14	— 8 4 13·25	—15·36
96	ω Leonis	5·6	0·96	1	9 21 10·43	+ 3'220	0·96	1	+ 9 38 51·83	—15·41
97	ξ Leonis.....	5·2	0·14	2	9 24 36·77	+ 3'241	0·14	2	+11 54 1'95	—15·68
98	η Leonis	5·4	0·36	1	9 24 40·10	+ 3'224	0·36	1	+10 18 49·49	—15·61
99	ο Leonis.....	3·8	0·18	2	9 33 53·37	+ 3'209	0·18	2	+10 30 34·82	—16·13
100	ε Leonis.....	3·1	...	...	9 38 8	+ 3'420	0·00	1	+24 23 55·68	—16·34
101	18 Leonis	6·1	0·18	2	9 39 3'50	+ 3'241	0·18	2	+12 26 8·11	—16·35
102	π Leonis	5·0	...	...	9 53 1	+ 3'176	0·00	9	+ 8 41 44·01	—17·07
103	14 Sextantis	6·9	0·14	1	9 59 40·65	+ 3'141	0·14	1	+ 6 16 24·85	—17·34
104	Α Leonis	4·6	0·62	4	10 0 41·15	+ 3'189	0·54	5	+10 39 47·08	—17·44
105	α Leonis.....	1·4	...	...	10 1 8	+ 3'202	0·00	20	+12 37 51·05	—17·40
106	γ ¹ Leonis	2·0	0·00	3	10 12 28·22	+ 3'319	0·00	4	+20 31 42·62	—18·02
107	43 Leonis	6·5	0·07	1	10 15 53·72	+ 3'144	0·07	1	+ 7 13 57·58	—18·11
108	45 Leonis	5·9	0·29	1	10 20 27·90	+ 3'175	0·37	2	+10 27 17·69	—18·18
109	30 Sextantis	4·9	0·22	1	10 23 20·31	+ 3'069	0·22	2	+ 0 3 34·24	—18·31
110	ρ Leonis.....	4·0	0·00	1	10 25 38·94	+ 3'165	0·00	3	+10 0 19·89	—18·37
111	36 Sextantis	6·5	0·22	1	10 38 8·92	+ 3'093	0·22	2	+ 3 12 9·01	—18·78
112	η Argûs	Var.	0·00	3	10 39 47·60	+ 2'309	0·00	11	—58 58 11·44	—18·84
113	ι Leonis	5·3	...	...	10 42 6	+ 3'159	0·00	1	+11 15 52·44	—18·93
114	χ Leonis.....	4·7	...	...	10 58 0	+ 3'097	0·00	1	+ 8 4 14·74	—19·35
115	ρ ² Leonis	5·7	0·30	1	10 59 57·92	+ 3'070	0·30	1	+ 2 41 37·18	—19·28
116	δ Leonis.....	2·8	...	...	11 6 52	+ 3'202	0·00	2	+21 16 8·67	—19·63
117	φ Leonis.....	4·5	0·26	2	11 9 44·92	+ 3'049	0·26	2	— 2 54 29·92	—19·60
118	δ Crateris	3·9	...	...	11 12 33	+ 2'993	0·00	18	—14 2 33·17	—19·42
119	ε Leonis	5·1	...	...	11 23 22	+ 3'063	0·37	1	— 2 15 11·58	—19·80
120	ν Leonis.....	4·5	...	...	11 29 59	+ 3'070	0·00	7	— 0 4 22·29	—19·84

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°0.	Annual Variation 1864°0.
					h m s	s			° ' "	"
121	β Leonis	2.2	...	...	11 42 7	+ 3.065	0.00	2	+15 19 57.49	-20.09
122	β Virginis.....	3.7	0.20	4	11 43 36.68	+ 3.124	0.20	4	+ 2 31 53.11	-20.27
123	10 Virginis.....	6.1	0.22	3	12 2 43.26	+ 3.072	0.22	3	+ 2 39 43.04	-20.24
124	ϵ Corvi	3.1	0.00	1	12 3 8.04	+ 3.074	0.00	10	-21 51 46.28	-20.03
125	13 Virginis.....	6.3	0.24	3	12 11 42.09	+ 3.072	0.22	2	- 0 1 49.35	-20.06
126	η Virginis.....	4.1	0.00	1	12 12 56.98	+ 3.066	0.00	7	+ 0 5 22.30	-20.05
127	ζ Virginis.....	5.7	0.25	6	12 26 45.77	+ 3.088	0.25	6	- 8 42 4.29	-19.91
128	β Corvi	2.8	...	...	12 27 15	+ 3.135	0.00	17	-22 38 37.74	-19.97
129	Lacaille 5235	6.6	0.49	4	12 30 46.27	+13.802	0.49	7	-89 3 6.68	-19.88
130	Lacaille 5235 S.P. ....	...	0.49	5	44.41	...	0.48	4	10.09	...
131	χ Virginis.....	4.7	0.25	5	12 32 13.85	+ 3.089	0.25	5	- 7 14 46.68	-19.88
132	γ Virginis.....	3.0	0.00	3	12 34 46.16	+ 3.036	0.00	2	- 0 42 9.33	-19.81
133	ψ Virginis.....	5.0	0.07	1	12 47 17.16	+ 3.111	0.07	1	- 8 47 56.85	-19.65
134	50 Virginis	6.5	0.30	2	13 2 38.55	+ 3.132	0.30	2	- 9 36 10.21	-19.33
135	θ Virginis.....	4.4	0.00	1	13 2 54.61	+ 3.098	0.00	10	- 4 48 41.91	-19.34
136	58 Virginis	7.0	0.22	1	13 10 19.73	+ 3.135	0.22	1	- 9 49 42.15	-19.09
137	α Virginis.....	1.2	0.00	2	13 18 1.98	+ 3.150	0.00	19	-10 26 59.93	-18.92
138	κ Virginis.....	5.5	0.28	4	13 25 48.52	+ 3.149	0.25	6	- 9 27 46.18	-18.69
139	ζ Virginis.....	3.5	...	...	13 27 46	+ 3.051	0.00	2	+ 0 6 3.69	-18.55
140	85 Virginis	6.5	...	...	13 38 16	+ 3.216	0.23	1	-15 4 57.28	-18.27
141	89 Virginis	5.2	...	...	13 42 29	+ 3.245	0.23	1	-17 27 17.69	-18.12
142	τ Virginis.....	4.4	...	...	13 54 44	+ 3.047	0.00	3	+ 2 12 15.89	-17.63
143	κ Virginis.....	4.3	0.34	4	14 5 38.69	+ 3.190	0.29	5	- 9 38 18.27	-16.98
144	α Boötis	0.0	0.00	1	14 9 27.59	+ 2.733	0.00	1	+19 53 31.41	-18.92
145	λ Virginis.....	4.6	0.34	5	14 11 45.28	+ 3.234	0.30	7	-12 44 34.20	-16.80
146	2 Libræ.....	6.3	0.31	1	14 16 6.81	+ 3.216	0.31	2	-11 5 26.64	-16.68
147	z Octantis.....	6.5	0.55	4	14 25 8.96	+21.667	0.55	7	-87 34 59.03	-16.27
148	z Octantis S.P.....	...	0.56	6	8.67	...	0.56	6	35 0.78	...
149	α^2 Centauri.....	1	0.91	2	14 30 22.84	+ 4.022	0.88	12	-60 16 21.04	-15.10
150	α^2 Centauri ....R.	...	...	...	...	...	0.87	9	22.13	...

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°o.	Annual Variation 1864°o.
					h m s	s			° ' "	"
151	α^1 Centauri	3½	...	...	14 30 23	+ 4°022	0°92	11	—60 16 12'12	—15°10
152	α^1 Centauri ...R.	...	...	...	...	...	0°87	8	12°94	...
153	ϵ Boötis	3°0	0°00	1	14 39 2°93	+ 2°620	0°00	1	+27 38 58°69	—15°42
154	α Libræ	3°0	...	...	14 43 22	+ 3°305	0°00	11	—15 28 27°29	—15°24
155	ψ Boötis	4°5	...	...	14 58 37	+ 2°569	0°00	1	+27 28 48°36	—14°28
156	ι^1 Libræ	4°9	0°36	3	15 4 28°62	+ 3°405	0°36	3	—19 16 27°65	—13°94
157	β Libræ	2°7	...	...	15 9 41	+ 3°218	0°00	8	— 8 52 42°52	—13°58
158	ζ^1 Libræ	6°2	0°35	2	15 20 35°43	+ 3°376	0°35	2	—16 14 21°19	—12°55
159	γ Libræ	4°0	0°39	5	15 27 55°39	+ 3°345	0°39	5	—14 19 59°08	—12°33
160	κ Libræ	5°0	0°31	2	15 34 6°91	+ 3°443	0°31	2	—19 14 5°81	—12°02
161	α Serpentis	2°7	0°00	1	15 37 34°22	+ 2°949	0°00	2	+ 6 51 22°94	—11°62
162	δ^1 Scorpii	2°5	0°53	1	15 52 17°68	+ 3°534	0°54	2	—22 13 51°61	—10°63
163	β^1 Scorpii	2½	0°00	1	15 57 32°04	+ 3°475	0°00	12	—19 25 47°82	—10°24
164	B.A.C. 5383	7½	0°23	1	16 4 4°59	+ 3°474	0°23	1	—19 5 35°13	— 9°72
165	ν Scorpii	4½	0°42	5	16 4 5°75	+ 3°474	0°33	4	—19 6 15°03	— 9°72
166	δ Ophiuchi	2°8	0°00	1	16 7 13°34	+ 3°136	0°00	5	— 3 20 27°81	— 9°61
167	B.A.C. 5412	6°0	...	...	16 11 2	+ 20°472	0°62	1	—86 5 30°46	— 9°23
168	σ Scorpii	3°0	0°34	5	16 12 55°60	+ 3°633	0°34	5	—25 15 46°49	— 9°04
169	α Scorpii	1°1	0°00	1	16 21 4°32	+ 3°665	0°00	25	—26 7 35°62	— 8°42
170	ζ Herculis	3°1	0°00	1	16 36 9°81	+ 2°261	0°00	1	+31 51 5°89	— 6°76
171	κ Ophiuchi	3°4	0°00	1	16 51 14°00	+ 2°835	0°00	4	+ 9 35 21°62	— 5°91
172	η Ophiuchi	2°6	0°49	8	17 2 34°78	+ 3°433	0°49	8	—15 33 10°41	— 4°88
173	α Herculis	Var.	0°00	1	17 8 26°60	+ 2°732	0°00	1	+14 32 54°34	— 4°44
174	θ Ophiuchi	3°4	0°00	1	17 13 39°62	+ 3°677	0°00	8	—24 51 36°49	— 4°06
175	b Ophiuchi	4°5	0°24	1	17 18 4°00	+ 3°656	0°24	1	—24 2 45°95	— 3°77
176	α Ophiuchi	2°2	...	...	17 28 37	+ 2°781	0°00	5	+12 39 43°87	— 2°95
177	μ Herculis	3°5	...	...	17 41 8	+ 2°345	0°00	1	+27 48 5°07	— 2°40
178	δ Sagittarii	4°6	0°47	2	17 51 29°55	+ 3°660	0°47	2	—23 47 58°27	— 0°80
179	σ Octantis	5°5	0°70	1	17 55 22°01	+109°673	0°00	2	—89 16 42°96	— 0°27
180	σ Octantis S.P....	...	0°70	1	22°15	...	0°00	15	44°83	...

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864 ^o .	Annual Variation 1864 ^o .	Fraction of Year.	No. of Obs.	Mean Dec. 1864 ^o .	Annual Variation 1864 ^o .
					^h ^m ^s	^s			^o ' "	["]
181	μ Sagittarii	4.1	0 ^o 00	2	18 5 37.73	+ 3.586	0 ^o 00	6	—21 5 26.93	+ 0.49
182	15 Sagittarii.....	5.6	0 ^o 62	1	18 7 6.19	+ 3.577	0 ^o 62	1	—20 45 54.66	+ 0.63
183	21 Sagittarii.....	4.9	0 ^o 52	3	18 17 15.07	+ 3.572	0 ^o 52	3	—20 36 38.65	+ 1.51
184	λ Sagittarii	3.1	0 ^o 50	2	18 19 34.65	+ 3.702	0 ^o 50	2	—25 29 35.95	+ 1.51
185	Souti 2 Hev.....	4.7	0 ^o 47	2	18 21 26.86	+ 3.423	0 ^o 47	2	—14 38 55.91	+ 1.87
186	ϵ^2 Sagittarii	3.5	0 ^o 49	3	18 49 37.02	+ 3.580	0 ^o 49	3	—21 16 54.52	+ 4.30
187	σ Sagittarii	3.9	0 ^o 39	2	18 56 32.02	+ 3.597	0 ^o 39	2	—21 56 13.31	+ 4.84
188	ζ Aquilæ	3.1	0 ^o 00	1	18 59 9.45	+ 2.755	0 ^o 00	1	+13 39 49.04	+ 5.03
189	π Sagittarii	3.1	0 ^o 54	2	19 1 40.49	+ 3.571	0 ^o 54	2	—21 14 10.94	+ 5.30
190	δ Sagittarii	4.9	0 ^o 62	2	19 9 40.68	+ 3.514	0 ^o 62	2	—19 11 29.99	+ 6.00
191	ω Aquilæ	5.1	...	...	19 11 26	+ 2.815	0 ^o 00	2	+11 21 9.94	+ 6.18
192	ρ Sagittarii	3.9	0 ^o 62	2	19 13 47.05	+ 3.483	0 ^o 62	2	—18 6 0.15	+ 6.37
193	δ Aquilæ	3.5	...	...	19 18 38	+ 3.025	0 ^o 00	1	+ 2 50 47.68	+ 6.84
194	λ^2 Sagittarii	4.6	0 ^o 00	1	19 28 25.76	+ 3.656	0 ^o 00	1	—25 10 49.69	+ 7.54
195	ϵ Sagittarii	5.0	0 ^o 62	2	19 34 44.32	+ 3.436	0 ^o 62	2	—16 26 22.24	+ 8.05
196	f Sagittarii	5.1	0 ^o 57	3	19 38 25.63	+ 3.505	0 ^o 57	3	—20 5 5.03	+ 8.27
197	γ Aquilæ	2.8	0 ^o 00	3	19 39 47.73	+ 2.852	0 ^o 00	3	+10 17 4.61	+ 8.47
198	α Aquilæ	1.0	0 ^o 00	3	19 44 8.76	+ 2.927	0 ^o 00	4	+ 8 30 43.18	+ 9.19
199	β Aquilæ	4.0	0 ^o 00	3	19 48 38.00	+ 2.946	0 ^o 00	4	+ 6 4 10.92	+ 8.69
200	α^1 Capricorni.....	4.5	0 ^o 00	1	20 10 6.72	+ 3.330	...	...	—12 56	+10.81
201	α^2 Capricorni.....	3.8	0 ^o 00	3	20 10 30.39	+ 3.334	0 ^o 00	10	—12 57 48.25	+10.83
202	β Capricorni.....	3.4	0 ^o 47	1	20 13 22.17	+ 3.377	0 ^o 47	1	—15 12 26.49	+11.05
203	ρ Capricorni.....	5.0	0 ^o 00	3	20 21 6.18	+ 3.429	0 ^o 00	9	—18 15 38.06	+11.58
204	τ Capricorni.....	5.3	0 ^o 62	2	20 31 40.02	+ 3.362	0 ^o 62	2	—15 25 45.10	+12.31
205	ϵ Aquarii	3.8	0 ^o 59	5	20 40 18.68	+ 3.252	0 ^o 62	6	—9 59 28.06	+12.89
206	B Octantis	6.6	0 ^o 32	2	20 44 59.35	+110.979	0 ^o 32	3	—89 27 59.13	+13.21
207	B Octantis S.P....	...	0 ^o 32	2	56.72	...	0 ^o 33	4	28 0.89	...
208	μ Aquarii	4.8	0 ^o 62	3	20 45 19.00	+ 3.241	0 ^o 66	4	—9 29 27.49	+13.21
209	ν Aquarii	4.6	0 ^o 65	3	21 2 11.05	+ 3.274	0 ^o 65	3	—11 55 11.64	+14.31
210	β Aquarii	3.1	0 ^o 00	1	21 24 23.93	+ 3.162	0 ^o 00	8	—6 10 2.54	+15.61

No	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1864°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1864°o.	Annual Variation 1864°o.
					^h ^m ^s	^s			^o ['] ["]	["]
211	ξ Aquarii	4·8	0·65	5	21 30 30·66	+ 3·199	0·65	5	— 8 27 44·07	+15·92
212	ε Pegasi.....	2·4	...	...	21 37 30	+ 2·946	0·00	2	+ 9 15 11·98	+16·31
213	α Aquarii	3·2	0·00	1	21 58 47·75	+ 3·083	0·00	6	— 0 58 44·00	+17·32
214	C Octantis.....	5·7	0·40	1	22 4 31·25	+14·077	0·40	2	—86 39 13·99	+17·64
215	C Octantis S.P....	...	0·40	1	31·31	...	0·40	1	15·33	...
216	θ Aquarii	4·3	0·00	3	22 9 39·34	+ 3·170	0·00	9	— 8 27 32·09	+17·76
217	γ Aquarii	4·1	0·68	4	22 14 37·91	+ 3·100	0·68	4	— 2 4 16·57	+17·99
218	ζ Aquarii (as one mass)	3·8	0·56	2	22 21 49·85	+ 3·090	0·56	2	— 0 42 51·79	+18·29
219	σ Aquarii	4·8	0·70	2	22 23 26·88	+ 3·181	0·70	2	—11 22 21·38	+18·27
220	η Aquarii	4·2	0·00	1	22 28 22·09	+ 3·084	0·00	4	— 0 49 2·04	+18·42
221	α Piscis Australis	1·3	0·00	5	22 50 7·77	+ 3·330	0·00	18	—30 20 30·34	+18·97
222	β Piscium	4·6	0·93	2	22 56 57·46	+ 3·052	0·93	2	+ 3 5 21·09	+19·29
223	α Pegasi.....	2·6	0·00	2	22 57 59·29	+ 2·983	0·00	6	+14 28 27·69	+19·30
224	τ Octantis.....	5·6	0·43	6	23 5 55·63	+13·212	0·43	7	—88 13 38·96	+19·52
225	τ Octantis S.P....	...	0·41	7	55·65	...	0·31	17	38·75	...
226	γ Piscium	3·8	0·00	7	23 10 6·98	+ 3·108	0·00	11	+ 2 32 24·37	+19·60
227	κ Piscium	5·0	0·00	4	23 19 57·67	+ 3·074	0·00	6	+ 0 30 42·54	+19·65
228	ι Piscium	4·3	0·00	4	23 32 57·45	+ 3·082	0·00	6	+ 4 53 23·04	+19·47
229	δ Sculptoris	4·6	0·00	2	23 41 50·19	+ 3·134	0·00	3	—28 52 54·42	+19·90
230	ω Piscium	4·2	0·00	6	23 52 19·78	+ 3·076	0·00	7	+ 6 6 38·77	+19·94

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

SEPARATE RESULTS

OF

MERIDIAN OBSERVATIONS OF STARS

MADE IN THE YEAR

1865,

REDUCED TO MEAN PLACE FOR 1865'0.

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Pegasi.				δ Piscium—continued.			
July 7	G	^h 6 ^m 17.24	^s 0 ...	Oct. 4	JS	^h 13 ^m 39.18	82° 33' 34".53
13	G	17.21	75 33 60.17	Nov. 27	G	39.18	33.71
14	G	17.22	60.08			^h 13 ^m 39.19	82 33 34.09
22	G	17.24	61.74	β Hydri.			
28	G	17.15	60.97	Jan. 4	G	18 36.50	168 0 53.01
Aug. 12	G	16.97	...	5	G	36.09	...
Sept. 4	G	17.32	...	6	G	36.64	...
6	CF	17.27	...	July 7	G	...	51.95
Oct. 31	CF	17.22	...	13	G	36.11	52.21
Nov. 17	CF	...	59.66	14	G	36.38	51.59
27	G	17.13	...	Aug. 9	JS	...	52.19
Dec. 28	G	17.28	...	12	G	...	53.22
		^h 6 ^m 17.20	75 34 0.52	Oct. 12	G	...	52.27
\circ Octantis.				18	G	36.06	52.86
June 22	G	^h 13 ^m 16.79	179 6 47.82	Nov. 1	G	...	51.70
23	G	20.69	50.10	9	G	35.98	51.35
		^h 13 ^m 18.74	179 6 48.96	10	G	36.09	51.28
\circ Octantis S.P.				13	G	...	52.08
June 23	G	^h 13 ^m 17.47	179 6 49.78	17	CF	...	51.89
28	G	...	50.12	20	G	36.15	51.93
29	G	...	51.18	21	CF	35.74	52.98
July 1	G	...	50.23	24	G	...	51.63
		^h 13 ^m 17.47	179 6 50.33	25	JS	...	52.99
δ Piscium.				Dec. 2	W	36.48	53.06
July 13	G	^h 13 ^m 39.25	82 33 33.28	5	G	36.36	...
14	G	39.21	34.55	6	G	36.13	...
Aug. 9	JS	39.12	34.40	12	G	36.17	...
				14	G	35.99	...
				18	G	37.29	...
				28	G	35.98	...
				29	G	36.19	...
						^h 18 ^m 36.24	168 0 52.23

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Hydri S.P.				12 Ceti—continued.			
Jan. 4	G	^{h m s} 0 18 36.57	168° 0' 56".48	Sept. 4	G	^{h m s} 0 23 9.07	° ... '
5	G	36.37	...	6	CF	9.08	94 42 12.26
July 8	G	...	55.08	Oct. 4	JS	...	12.22
12	G	...	53.64	31	CF	8.96	11.07
13	G	35.92	54.40	Nov. 25	JS	8.88	...
14	JS	36.37	53.98	27	G	8.98	...
17	G	...	53.65				
18	G	...	54.24			0 23 9.02	94 42 11.74
Aug. 12	G	...	55.37	β Ceti.			
Oct. 11	G	...	53.10	Jan. 4	G	...	108 43 40.53
15	G	...	54.39	31	JS	...	39.85
17	G	36.17	...	Feb. 2	JS	...	39.97
19	G	36.50	...	Mar. 25	CF	...	38.90
Nov. 8	G	36.00	...	27	G	...	40.62
10	G	35.95	...	28	G	...	39.16
20	G	35.74	...	29	G	...	39.53
21	G	35.99	...	30	CF	...	39.55
Dec. 1	W	36.17	...	31	CF	...	41.64
5	G	36.31	...	Apr. 2	G	...	40.50
6	G	36.02	...	4	CF	...	39.54
10	G	36.53	...	5	G	...	39.24
11	G	36.00	...	6	G	0 36 48.73	39.58
14	G	35.96	...	7	CF	...	39.21
28	G	36.00	...	11	G	...	39.54
		0 18 36.15	168 0 54.43	12	G	...	40.83
10 Ceti.				17	G	...	39.27
Nov. 28	G	0 19 42.14	90 47 49.63	18	G	...	40.21
12 Ceti.				21	G	...	39.86
June 21	CF	...	94 42 10.62	23	G	...	39.27
July 14	G	0 23 9.02	12.22	24	G	...	39.83
Aug. 3	G	9.18	12.05	26	CF	...	39.61
				27	CF	...	40.82
				30	G	...	39.69

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>β Ceti—continued.</i>				<i>ε Piscium—continued.</i>			
May 1	CF	^{h m s}	108° 43' 38".98	Nov. 1	G	^{h m s} 0 55 56".50	82° 50' 13".54
2	G	...	39.65	28	G	...	14.01
3	G	...	39.74	29	CF	56.23	13.15
4	G	...	39.84			0 55 56".38	82 50 13.78
June 21	CF	...	39.77	<i>ζ Piscium (1st Star).</i>			
22	G	...	39.59	Oct. 4	JS	1 6 40.66	83 8 21.40
July 22	G	0 36 48.69	40.40	5	CF	40.86	20.67
Aug. 3	G	48.71	40.00	Nov. 28	G	40.86	20.84
7	G	48.74	...	29	CF	41.02	19.06
12	G	48.52	...			1 6 40.85	83 8 20.49
Sept. 6	CF	48.52	...	<i>ζ Piscium (2nd Star).</i>			
Oct. 31	CF	48.68	...	Oct. 4	JS	1 6 42.22	83 8 13.29
Nov. 1	G	48.71	39.94	5	CF	42.35	11.21
27	G	48.68	...			1 6 42.29	83 8 12.25
		0 36 48.66	108 43 39.84	<i>θ¹ Ceti.</i>			
<i>δ Piscium.</i>				June 23	G	...	98 52 49.29
Jan. 4	G	0 41 40.96	83 8 59.11	July 7	G	1 17 16.63	51.00
July 13	G	40.80	58.65	13	G	16.54	50.76
14	G	40.92	59.76	22	G	16.54	50.54
Sept. 6	CF	40.94	60.83	28	G	16.54	50.60
Oct. 31	CF	40.84	58.63	Aug. 3	G	16.59	...
Nov. 1	G	40.90	60.70	12	G	16.73	...
		0 41 40.89	83 8 59.61	Oct. 5	CF	16.59	...
<i>ε Piscium.</i>				Nov. 1	G	16.54	...
Jan. 4	G	...	82 50 14.42	29	CF	16.60	...
Oct. 4	JS	...	13.41	Dec. 1	G	16.71	...
5	CF	0 55 56.42	...			1 17 16.60	98 52 50.44
31	CF	56.37	14.16				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Piscium.				α Arietis.			
Jan. 4	G	^h 1 ^m 24 ^s 15'79	75° 21' 1'61	Mar. 25	JS	^h ... ^s	67° 10' 36'93
July 7	G	15'76	...	27	JS	...	39'52
Oct. 5	CF	15'84	...	May 21	G	...	36'95
Nov. 29	CF	15'91	...	July 7	G	1 59 34'07	...
		1 24 15'83	75 21 1'61	28	G	34'11	39'86
ν Piscium.				Aug. 7	G	34'16	...
Jan. 4	G	...	85 11 47'99	17	G	34'15	38'36
July 14	G	1 34 24'53	47'38	Sept. 8	CF	34'07	38'99
Oct. 4	JS	...	49'08	Oct. 5	CF	34'02	...
5	CF	24'53	46'97	Nov. 1	G	34'20	...
Nov. 29	CF	24'47	...			1 59 34'11	67 10 38'44
Dec. 26	JS	...	46'62	ξ Ceti.			
		1 34 24'51	85 11 47'61	Jan. 5	JS	2 5 50'93	81 47 14'41
\omicron Piscium.				Aug. 12	G	51'05	16'12
Jan. 4	G	1 38 16'23	81 31 21'99	Sept. 8	CF	50'84	15'50
July 14	G	16'08	21'79	Oct. 5	CF	50'82	16'21
Sept. 8	CF	16'00	20'98	6	JS	50'92	15'93
Nov. 1	G	16'06	22'24	Nov. 1	G	50'94	16'90
Dec. 26	JS	...	20'29	29	CF	50'97	14'84
		1 38 16'09	81 31 21'46	Dec. 26	JS	50'88	15'66
β Arietis.						2 5 50'92	81 47 15'70
Sept. 8	CF	1 47 11'34	69 51 10'98	ζ Ceti.			
Oct. 5	CF	11'25	...	July 7	G	2 10 15'19	...
Nov. 1	G	11'33	...	Aug. 17	G	15'10	97 2 44'09
		1 47 11'31	69 51 10'98	19	G	15'06	...
				23	G	15'07	...
				Sept. 8	CF	15'08	...

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
67 Ceti—continued.				μ Ceti.			
Oct. 5	CF	^{h m s} 2 10 15.11	^{° ' "}	Jan. 5	JS	^{h m s} 2 37 38.82	^{° ' "} 80 27 26.39
Nov. 29	CF	15.21	...	6	G	38.86	27.34
		2 10 15.12	97 2 44.09	July 15	JS	38.91	26.83
ξ^2 Ceti.				Sept. 8	CF	38.94	26.10
Jan. 5	JS	...	82 8 45.74	Dec. 28	G	38.93	28.43
6	G	...	47.79			2 37 38.89	80 27 27.02
July 13	G	2 20 59.06	48.66	α Ceti.			
14	G	59.08	...	Jan. 5	JS	...	86 26 30.18
15	JS	...	45.87	6	G	...	30.11
21	G	59.13	...	May 21	G	...	29.56
22	G	59.11	...	30	G	...	28.57
Aug. 12	G	59.15	48.19	June 9	CF	...	28.84
17	G	59.09	47.39	13	CF	...	27.87
19	G	59.06	...	July 14	G	2 55 13.50	...
23	G	59.00	...	21	G	13.53	30.13
25	G	59.06	...	Aug. 17	G	13.49	...
Sept. 8	CF	59.16	47.75	19	G	13.61	...
Oct. 5	CF	59.12	47.75	23	G	13.47	...
6	JS	...	46.95	25	G	13.50	...
Nov. 29	CF	59.05	47.13	Dec. 28	G	13.56	30.72
		2 20 59.09	82 8 47.32			2 55 13.52	86 26 29.50
γ Ceti.				δ Arietis.			
July 14	G	2 36 18.47	...	Jan. 6	G	...	70 47 9.53
21	G	18.56	87 20 5.51	Aug. 12	G	3 3 54.87	10.28
Aug. 3	G	18.45	...	Oct. 6	JS	...	9.85
17	G	18.48	...	Dec. 1	G	54.96	9.37
19	G	18.48	...	28	G	54.93	8.52
23	G	18.60	...			3 3 54.92	70 47 9.51
25	G	18.39	...				
Sept. 8	CF	18.44	...				
		2 36 18.48	87 20 5.51				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ζ Arietis.				γ' Eridani.			
Jan. 6	G	^h 3 ^m 7 ^s 8.75	69° 27' 28".34	Jan. 20	G	^h ... ^m ... ^s ...	103° 53' 39".11
f Tauri.				Feb. 4	CF	...	40.69
Jan. 6	G	3 23 25.29	77 31 40.76	Mar. 2	G	3 51 43.89	...
7	JS	25.31	39.52	4	CF	44.10	40.10
Aug. 12	G	25.47	41.78	Apr. 15	JS	...	39.48
Oct. 6	JS	25.34	40.88	20	JS	...	38.72
Dec. 1	G	25.50	41.58	21	JS	...	38.73
		3 23 25.38	77 31 40.90	22	JS	43.95	39.47
η Tauri.				24	JS	...	38.37
Feb. 4	CF	...	66 18 54.99	25	JS	...	39.57
Mar. 2	G	...	53.20	27	JS	...	38.55
3	G	...	53.46	28	JS	...	39.95
Sept. 4	G	3 39 27.86	...	May 30	G	...	39.98
Oct. 5	G	27.88	...	June 13	G	...	39.84
6	G	27.86	...	16	G	...	39.12
Dec. 28	G	27.84	55.74	Oct. 5	G	43.92	...
		3 39 27.86	66 18 54.35	6	G	44.01	...
γ Hydri.				Dec. 1	G	43.99	...
Mar. 1	G	...	164 39 5.61	28	G	43.87	...
2	G	3 49 21.75	6.40			3 51 43.96	103 53 39.41
3	G	21.70	7.02	λ Tauri.			
4	CF	21.92	6.31	Sept. 10	CF	3 53 12.18	77 53 35.53
		3 49 21.79	164 39 6.34	Nov. 4	CF	...	33.96
				Dec. 28	G	12.17	37.40
				29	JS	12.24	36.85
						3 53 12.20	77 53 35.94
				A Tauri.			
				Dec. 28	G	3 56 43.07	68 17 23.16
				29	JS	43.16	22.28
						3 56 43.12	68 17 22.72

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
o ¹ Eridani.				α Tauri.			
Jan. 20	G	^h ^m ^s ...	97° 11' 29.36	Jan. 7	JS	^h ^m ^s ...	73° 45' 52.08
Feb. 4	OF	...	31.62	8	G	...	53.68
Mar. 4	CF	4 5 16.75	30.42	Mar. 3	G	...	53.09
Aug. 25	G	16.65	...	4	CF	4 28 10.51	54.68
30	G	16.67	...	Apr. 15	JS	...	54.54
Sept. 4	G	16.64	...	20	JS	...	52.07
10	OF	...	26.61	21	CF	10.63	52.12
Oct. 5	G	16.69	...	22	JS	10.62	54.03
6	G	16.74	29.69	24	JS	...	53.95
Dec. 1	G	16.57	...	25	JS	...	53.02
28	G	16.56	...	27	JS	...	51.91
29	JS	...	30.17	29	JS	...	53.23
		4 5 16.66	97 11 29.65	May 1	JS	...	53.77
γ Tauri.				2	JS	...	54.09
Nov. 4	CF	4 12 7	74 42 2.10	June 23	JS	...	52.82
ε Tauri.				July 2	G	...	54.40
Jan. 7	JS	...	71 7 16.88	Aug. 18	G	10.65	...
8	G	...	18.69	23	G	10.66	...
Mar. 3	G	...	17.89	25	G	10.76	...
4	CF	4 20 44.21	20.10	30	G	10.69	...
Sept. 4	G	44.15	...	Sept. 4	G	10.49	...
10	CF	...	17.25	10	CF	...	52.99
Oct. 5	G	44.19	...	11	JS	...	54.80
6	G	44.24	...	Oct. 5	G	10.61	...
Dec. 1	G	44.06	16.81	6	G	10.72	...
2	JS	...	18.95	Dec. 1	G	10.64	53.41
		4 20 44.17	71 7 18.08	2	JS	...	53.40
				29	JS	...	52.10
						4 28 10.63	73 45 53.34

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
B.A.C. 1454.				β Orionis—continued.			
Aug. 23	G	^{h m s} 4 33 4.11	171° 52' 54".86	May 1	JS	^{h m s} 5 8 3.13	98° 21' 35".25
24	G	4.39	...	2	JS	...	34.79
25	G	4.19	53.54	June 16	CF	...	34.42
30	G	3.85	54.53	22	G	...	35.00
Sept. 1	G	2.72	...	July 2	G	...	35.71
4	G	3.73	...	7	G	3.05	35.56
		4 33 3.83	171 52 54.31	Aug. 30	G	3.07	...
B.A.C. 1454 S.P.				Sept. 11	JS	...	35.94
Aug. 24	G	4 33 4.32	...	Dec. 2	JS	...	37.86
25	G	4.11	171 52 53.81			5 8 3.06	98 21 35.63
31	G	3.54	54.98	β Tauri.			
Sept. 1	G	3.92	...	Mar. 4	CF	5 17 45.49	61 30 35.73
		4 33 3.97	171 52 54.40	Apr. 21	CF	45.46	...
γ Tauri.				25	CF	...	33.50
Feb. 4	CF	4 34 8.89	...	27	CF	45.57	33.57
Sept. 10	CF	8.85	67 18 16.55	29	JS	...	35.92
		4 34 8.87	67 18 16.55	May 1	JS	45.55	34.79
β Orionis.						5 17 45.52	61 30 34.70
Jan. 8	G	...	98 21 38.78	ϵ Tauri.			
23	G	...	35.69	Jan. 8	G	5 19 31.75	68 10 56.01
26	CF	...	36.82	9	JS	31.95	56.71
Mar. 4	CF	5 8 3.00	35.76			5 19 31.85	68 10 56.36
Apr. 20	CF	...	34.45	η Tauri.			
22	JS	3.05	35.10	Mar. 4	CF	5 24 17.94	71 30 32.92
24	CF	3.08	34.52				
25	CF	...	34.61				
27	CF	3.07	35.94				
28	CF	3.01	35.16				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Orionis.				ζ Tauri.			
Jan. 8	G	^h ... ^m ... ^s ...	90° 24' 7".25	Jan. 8	G	^h 5 29 34.71 ^m ... ^s ...	68° 56' 34".25
9	JS	...	6.37	9	JS	34.77	33.38
31	JS	5 25 6.59	...	Oct. 8	JS	34.64	...
Apr. 21	CF	6.66	5.70	Dec. 2	JS	34.82	37.68
22	JS	6.63	5.12			5 29 34.74	68 56 35.10
24	CF	6.61	4.70	α Columbæ.			
25	CF	...	5.58	Jan. 23	G	5 34 45.64	...
27	CF	6.65	2.37	28	G	45.55	...
28	CF	6.67	5.45	30	JS	45.65	...
May 1	JS	6.71	5.21	31	JS	45.59	...
2	JS	...	6.98	Feb. 2	JS	45.57	...
June 22	G	...	5.58	3	JS	45.55	...
Sept. 11	JS	...	5.44	4	JS	45.41	...
		5 25 6.65	90 24 5.48	9	JS	45.60	...
α Leporis.				10	JS	45.69	...
Jan. 31	JS	5 26 46.41	...	Apr. 21	CF	45.65	124 8 51.55
Apr. 22	JS	46.58	107 55 15.50	22	JS	45.65	50.46
24	CF	46.54	...	24	CF	45.66	51.06
28	CF	46.55	...	25	CF	45.62	50.08
May 1	JS	46.60	...	27	CF	45.60	51.08
		5 26 46.54	107 55 15.50	28	CF	45.68	50.73
ϵ Orionis.				May 1	JS	45.59	50.17
Apr. 21	CF	5 29 21.84	91 17 25.18	June 9	CF	...	50.42
24	CF	21.88	27.06	13	CF	...	49.67
25	CF	...	24.75	July 7	G	45.65	...
27	CF	21.84	25.57	10	CF	45.70	...
28	CF	21.83	26.46	12	CF	45.54	...
May 1	JS	21.80	24.77	14	CF	45.59	...
2	JS	...	25.76	16	G	45.65	...
		5 29 21.84	91 17 25.65	21	G	45.71	...
				Sept. 12	CF	45.47	...
				Oct. 8	JS	45.63	...
				Dec. 2	JS	45.60	...
						5 34 45.61	124 8 50.58

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
χ^1 Orionis.				ν Orionis.			
Feb. 6	JS	^h ^m ^s	69° 45' 5' 92	Feb. 9	JS	^h ^m ^s	75° 13' 1' 92
Sept. 12	CF	5 46 23' 38	...	10	JS	...	4' 23
Oct. 8	JS	23' 47	7' 43	13	JS	...	4' 34
Dec. 2	JS	23' 29	9' 39	14	JS	...	5' 92
		5 46 23' 38	69 45 7' 58	17	JS	...	4' 55
α Orionis.				20	JS	...	4' 79
Jan. 31	JS	5 47 51' 93	...	22	JS	...	5' 15
Apr. 21	CF	51' 88	82 37 14' 52	23	JS	...	7' 07
22	JS	51' 82	13' 47	24	JS	...	5' 05
24	CF	51' 86	13' 99	28	JS	...	4' 02
27	CF	51' 80	13' 80	Mar. 10	JS	...	4' 62
28	CF	51' 86	15' 89			5 59 52	75 13 4' 70
May 1	JS	51' 73	14' 10	η Geminorum.			
June 14	CF	...	14' 10	Jan. 9	JS	6 6 43' 87	67 27 25' 68
22	G	...	14' 98	10	G	43' 93	...
26	G	...	15' 48			6 6 43' 90	67 27 25' 68
27	G	...	13' 94	μ Geminorum.			
28	CF	...	14' 54	Jan. 9	JS	...	67 25 12' 65
29	G	...	14' 38	10	G	...	13' 01
July 2	G	...	15' 49	Feb. 7	CF	...	10' 76
21	G	51' 87	...	Mar. 5	G	...	14' 01
		5 47 51' 84	82 37 14' 51	6	JS	...	11' 93
B.A.C. 1898.				20	G	...	13' 58
Mar. 20	G	5 47 57' 98	170 33 58' 03	Apr. 2	CF	...	12' 87
B.A.C. 1898 S.P.				Dec. 4	CF	...	12' 63
						6 14 48	67 25 12' 68
				α Argûs.			
Mar. 20	G	5 47 57' 61	170 33 59' 07	Feb. 17	JS	6 20 57' 29	142 37

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
γ Geminorum.				α Canis Majoris—continued.			
Feb. 7	CF	^h ^m ^s	73° 29' 18".71	Mar. 4	JS	^h ^m ^s	106° 31' 60".56
Mar. 5	G	...	19.53	6	JS	6 39 11.67	60.09
6	JS	...	18.37	June 23	JS	...	58.11
Apr. 2	CF	...	20.35	26	CF	...	58.93
Sept. 12	CF	...	18.43	27	JS	...	59.15
Dec. 4	CF	...	19.05	28	JS	...	58.77
		6 29 55	73 29 19.07	29	CF	...	57.91
ξ Geminorum.				July 2	CF	...	58.96
Feb. 6	JS	...	76 57 41.02	11	JS	...	59.43
7	CF	6 37 42.82	40.59	12	CF	11.76	58.83
Sept. 12	CF	42.56	...	13	JS	...	58.28
		6 37 42.69	76 57 40.81	14	CF	11.80	59.09
α Canis Majoris.				16	G	11.82	58.93
Jan. 28	JS	...	106 31 59.82	17	G	11.90	59.29
30	JS	6 39 11.81	59.12	21	G	11.83	58.94
31	JS	11.90	59.61	27	G	...	59.91
Feb. 2	JS	...	59.21	28	G	11.77	59.25
3	JS	...	59.85	Sept. 12	CF	11.73	...
6	JS	...	59.37	Dec. 4	CF	11.87	59.97
7	CF	11.62	57.99			6 39 11.77	106 31 59.22
9	JS	11.73	59.26	ϵ Canis Majoris.			
10	JS	11.57	58.51	Jan. 28	JS	...	118 47 25.33
13	JS	11.86	59.00	30	JS	...	23.82
14	JS	11.71	59.24	31	JS	6 53 19.23	24.62
17	JS	11.79	59.31	Feb. 2	JS	...	24.02
20	JS	...	59.70	3	JS	...	24.64
22	JS	...	59.73	6	JS	...	24.40
23	JS	11.73	59.74	7	CF	...	23.89
28	JS	...	59.76	9	JS	...	24.86
				10	JS	...	23.92
				13	JS	...	23.57
				14	JS	...	24.78
				17	JS	...	24.05

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Canis Majoris—continued.				δ Geminorum.			
Feb. 20	JS	^h ^m ^s ...	118° 47' 24".11	Jan. 11	JS	^h ^m ^s ...	67° 46' 18".17
22	JS	...	23.83	31	JS	7 12 3.63	...
23	JS	...	23.86	Mar. 6	JS	...	19.09
Mar. 4	JS	...	24.48	7	JS	...	17.72
Apr. 3	JS	...	24.00	Apr. 2	CF	...	19.06
June 23	JS	...	24.04	3	JS	...	19.93
27	JS	...	24.07			7 12 3.63	67 46 18.79
28	JS	...	23.81	δ_3 Geminorum.			
29	CF	...	23.28	Mar. 6	JS	7 19 43.39	68 16 54.11
July 3	CF	...	23.91	7	JS	43.44	52.78
12	CF	...	23.84			7 19 43.42	68 16 53.45
13	JS	...	24.21	δ_8 Geminorum.			
14	CF	...	23.65	Dec. 4	CF	7 25 54.09	73 53 8.18
16	G	...	24.76	5	G	54.08	9.22
21	G	6 53 19.19	...			7 25 54.09	73 53 8.70
28	G	19.22	...	α Canis Minoris.			
		6 53 19.21	118 47 24.14	Feb. 7	CF	7 32 14.06	84 25 53.73
ζ Geminorum.				Mar. 7	JS	13.98	...
Feb. 6	JS	...	69 14 4.17	July 18	G	13.95	...
7	CF	6 56 6.12	7.85	28	G	14.05	...
Apr. 3	JS	5.95	5.34	Aug. 18	G	14.07	...
Nov. 7	G	6.08	5.94	Dec. 1	W	14.06	54.10
		6 56 6.05	69 14 5.83	5	G	14.01	...
λ Geminorum.						7 32 14.03	84 25 53.92
Dec. 4	CF	7 10 20.06	73 13 7.35				
5	G	20.00	8.85				
		7 10 20.03	73 13 8.10				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Geminorum.				ζ Cancri.			
Nov. 7	G	$^h^m^s$ 7 37 2.97	61° 39' "	Jan. 12	G	$^h^m^s$ 8 4 28.18	° ... "
ι Cancri.				Nov. 7	G	28.30	...
Feb. 7	CF	7 49 19.53	73 51 4.78			8 4 28.24	71 57
8	G	19.39	5.95	δ^1 Cancri.			
		7 49 19.46	73 51 5.37	Mar. 7	JS	8 15 37.92	71 14 10.93
ϵ Cancri.				8	CF	37.91	12.83
Feb. 7	CF	7 53 48.67	73 10 29.78			8 15 37.92	71 14 11.88
8	G	48.46	30.51	Λ Octantis.			
Apr. 3	JS	48.55	30.98	May 1	G	8 17 7.75	178 28 19.29
		7 53 48.56	73 10 30.42	4	G	6.64	20.40
δ Cancri.						8 17 7.20	178 28 19.85
Mar. 8	CF	7 55 13	61 49 47.97	Λ Octantis S.P.			
δ Cancri.				May 1	G	8 17 8.75	178 28 25.54
Apr. 3	JS	7 57 33.18	76 29 58.65	2	G	...	22.23
ι_5 Argus.				3	G	5.93	21.20
Mar. 8	CF	...	113 55 1.30			8 17 7.34	178 28 22.99
Apr. 3	JS	...	1.48	ϵ_9 Cancri.			
Aug. 18	G	8 1 47.67	...	Jan. 12	G	8 21 5.25	...
20	G	47.69	...	Mar. 7	JS	5.16	75 20 39.93
23	G	47.72	...	8	CF	5.32	39.86
Dec. 14	G	47.74	...			8 21 5.24	75 20 39.90
19	G	47.66	1.10				
21	G	47.76	2.53				
		8 1 47.71	113 55 1.60				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Cancri.				ϵ Hydræ.			
Feb. 8	G	^h ^m ^s ...	69° 6' 9.43	Jan. 12	G	^h ^m ^s ...	83° 5' 16.70
9	CF	...	7.04	Feb. 9	CF	...	16.56
Mar. 8	CF	...	7.61	Dec. 1	W	...	16.33
Apr. 5	CF	...	8.13	14	G	8 39 37.53	17.25
May 1	G	...	8.22	19	G	37.48	16.01
Dec. 14	G	8 24 53.85	...	21	G	37.51	17.28
19	G	53.84	...			8 39 37.51	83 5 16.69
21	G	53.90	...				
		8 24 53.86	69 6 8.09				
σ^1 Cancri.				α Cancri.			
May 1	G	8 29 46.52	79 52 38.02	Jan. 12	G	8 51 6.07	77 37 17.27
2	CF	46.53	38.39	Feb. 9	CF	6.20	16.57
		8 29 46.53	79 52 38.21	Mar. 8	CF	6.15	16.39
				9	G	6.10	17.61
				Apr. 5	CF	6.17	15.88
						8 51 6.14	77 37 16.74
39 Cancri.				κ Cancri.			
Dec. 5	G	8 32 20.24	69 31 4.13	Jan. 12	G	9 0 26.02	78 47 25.27
				13	JS	26.18	23.87
δ Cancri.						9 0 26.10	78 47 24.57
Feb. 8	G	8 37 0.62	71 21 5.44				
9	CF	0.81	4.96				
Dec. 5	G	0.61	5.72				
		8 37 0.68	71 21 5.37				
A^2 Cancri.				π^2 Cancri.			
Apr. 5	CF	8 39 31.91	77 23 46.36	Mar. 8	CF	9 7 46.47	74 30 1.04
				9	G	46.49	0.79
						9 7 46.48	74 30 0.92

280 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
83 Canori.				1 Sextantis.			
Feb. 8	G	^h ^m ^s ...	71° 43' 25".50	Feb. 9	CF	^h ^m ^s 9 29 4".96	82° 33' 37".86
9	CF	...	26.07	Dec. 6	CF	4.97	37.37
Mar. 9	G	...	24.67			9 29 4".97	82 33 37.62
May 2	CF	...	25.59	o Leonis.			
Dec. 6	CF	9 11 26.56	25.72	Jan. 13	JS	9 33 56.75	79 29 42.00
12	G	...	25.48	Feb. 9	CF	56.66	41.97
14	G	26.61	27.66	10	G	56.68	40.18
19	G	26.72	25.93	May 2	CF	56.58	41.22
21	G	26.57	...	3	G	56.56	41.92
		9 11 26.62	71 43 25.83	Dec. 6	CF	56.70	43.02
α Hydræ.						9 33 56.66	79 29 41.72
Jan. 13	JS	...	98 4 28.63	e Leonis.			
Feb. 8	G	...	29.46	May 3	G	...	65 36 18.71
9	CF	...	28.84	Dec. 6	CF	9 38 10.89	19.15
Mar. 9	G	...	30.29			9 38 10.89	65 36 18.93
Apr. 5	CF	...	28.75	B.A.C. 3336.			
May 2	CF	...	30.68	Apr. 5	CF	9 39 2.66	82 40 44.30
3	G	...	29.74	6	G	2.67	44.44
Aug. 23	G	9 20 57.23	...			9 39 2.67	82 40 44.37
30	G	57.16	...	π Leonis.			
Dec. 1	W	...	28.85	Jan. 13	JS	...	81 18 33.10
6	CF	57.25	28.99	14	G	...	33.43
12	G	...	30.03	Feb. 10	G	...	33.28
14	G	57.18	30.74				
19	G	57.17	...				
21	G	57.17	...				
		9 20 57.19	98 4 29.55				
λ Leonis.							
May 2	CF	9 24 43.31	79 41 26.44				
3	G	43.33	25.56				
		9 24 43.32	79 41 26.00				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
π Leonis—continued.				43 Leonis.			
Mar. 9	G	^h ^m ^s ...	81° 18' 32".51	Apr. 6	G	^h ^m ^s 10 15 56".56	82° 46' 22".22
10	CF	...	33.00	7	OF	56".51	21.71
Apr. 5	CF	...	32.10			10 15 56".54	82 46 21.97
6	G	...	32.30	45 Leonis.			
May 3	G	...	32.82	Jan. 14	G	10 20 31".15	79 32 60.11
4	CF	...	32.29	15	JS	...	60.20
30	G	...	32.61	Feb. 10	G	31".10	59.97
31	CF	...	32.20			10 20 31".13	79 33 0.09
Dec. 6	CF	9 53 4".76	32.69	ρ Leonis.			
		9 53 4".76	81 18 32.69	Jan. 14	G	...	79 59 59.06
α Leonis.				Feb. 10	G	...	58.57
Jan. 13	JS	...	77 22 26.78	Apr. 6	G	...	58.09
Feb. 10	G	...	25.78	7	CF	10 25 42".06	57.46
Mar. 9	G	...	25.92	May 4	CF	...	58.14
10	CF	...	25.61	31	CF	...	57.57
Apr. 7	CF	10 1 10".73	25.48			10 25 42".06	79 59 58.15
May 3	G	...	26.37	34 Sextantis.			
4	CF	...	25.22	May 31	CF	10 35 39".32	85 42 42.90
30	G	...	27.37	June 1	JS	...	43.80
31	OF	...	27.65			10 35 39".32	85 42 43.35
Aug. 30	G	10.76	...	ι Leonis.			
Dec. 6	CF	10.78	26.11	Jan. 15	JS	...	78 44 26.78
		10 1 10".76	77 22 26.23	Mar. 10	OF	...	28.52
γ^1 Leonis.				Apr. 7	CF	10 42 9".59	27.00
Jan. 14	G	10 12 31".68	69 28 36.58				
Apr. 6	G	31".57	35.15				
7	CF	31".61	35.87				
May 4	CF	31".69	35.38				
Dec. 6	OF	31".63	35.18				
		10 12 31".64	69 28 35.63				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>l Leonis—continued.</i>				<i>δ Leonis.</i>			
May 4	CF	^h ^m ^s	78° 44' 28".42	Apr. 7	CF	^h ^m ^s 11 6 55".49	68° 44' 12".72
31	CF	... ..	27".26	Dec. 8	G	55".50	...
June 1	CF	... ..	27".60		11	6 55".50	68 44 12".72
		10 42 9".59	78 44 27".60	<i>φ Leonis.</i>			
<i>55 Leonis.</i>				Jan. 15	JS	...	92 54 49".09
Mar. 10	CF	10 48 45".73	88 32 36".36	Feb. 12	JS	11 9 47".88	49".47
<i>δ Leonis.</i>				Apr. 7	CF	47".96	50".23
May 4	CF	10 53 35".32	85 39 29".13	8	G	48".00	50".16
5	G	35".32	28".89	June 2	CF	47".80	48".46
31	CF	35".39	28".68		11	9 47".91	92 54 49".48
June 1	JS	35".24	28".53	<i>δ Crateris.</i>			
		10 53 35".32	85 39 28".81	Feb. 13	CF	...	104 2 53".33
<i>e Leonis.</i>				Apr. 7	CF	11 12 35".67	53".55
Mar. 10	CF	10 53 44".97	83 10 25".01	8	G	...	52".02
<i>χ Leonis.</i>				May 5	G	...	53".15
Apr. 7	CF	10 58 3".08	81 56 2".96	22	G	...	52".33
May 4	CF	...	3".95	June 1	JS	...	52".76
5	G	...	4".27	2	CF	...	51".26
Dec. 8	G	3".23	4".75	Oct. 6	G	35".31	...
		10 58 3".16	81 56 3".98	Dec. 8	G	35".60	...
					11	12 35".53	104 2 52".63
<i>ρ¹ Leonis.</i>				<i>79 Leonis.</i>			
Feb. 12	JS	11 6 50".86	89 20 6".03	Apr. 7	CF	11 17 6".74	87 51 4".72
May 4	CF	50".99	7".87	8	G	6".68	4".57
5	G	50".94	7".21		11	17 6".71	87 51 4".65
		11 6 50".93	89 20 7".04				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ν Leonis.				ϵ Corvi.			
Feb. 12	JS	^h ^m ^s ...	90° 4' 42".51	Mar. 12	CF	^h ^m ^s ...	111° 52' 5".53
13	CF	...	41.57	Apr. 8	G	...	6.78
Mar. 12	CF	...	42.21			12 3 11	111 52 6.16
May 5	G	...	42.49	η Virginis.			
6	JS	...	42.15	Jan. 17	JS	...	89 54 57.84
16	G	...	42.38	Feb. 13	CF	...	57.74
22	G	...	42.45	Apr. 8	G	...	58.17
June 1	JS	...	42.72	June 2	CF	...	58.91
2	CF	...	44.39	3	G	...	58.94
30	CF	...	40.89			12 13 0	89 54 58.32
		11 30 2	90 4 42.38	q Virginis.			
β Leonis.				May 6	JS	12 26 48.90	98 42 23.76
May 16	G	11 42 10	74 40 21.49	7	G	48.89	23.11
β Virginis.						12 26 48.90	98 42 23.44
Feb. 12	JS	11 43 39.94	87 28 27.64	f Virginis.			
13	CF	39.83	26.70	Feb. 13	CF	12 29 50.30	95 5 13.65
Mar. 12	CF	39.78	29.11	14	G	50.39	13.48
Apr. 8	G	39.74	27.44			12 29 50.35	95 5 13.57
May 5	G	39.83	28.15	Lacaille 5235.			
6	JS	39.88	26.93	June 23	G	12 30 58.15	179 3 25.87
June 30	CF	39.86	26.06	28	G	...	28.29
		11 43 39.84	87 28 27.43	29	G	...	25.59
10 Virginis.				30	CF	...	24.29
June 2	CF	12 2 46.30	87 20 37.50	July 1	G	...	28.01
3	G	46.39	36.59			12 30 58.15	179 3 26.41
30	CF	46.41	35.07				
		12 2 46.37	87 20 36.39				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
Lacaille 5235 S.P.				θ Virginis.			
June 22	G	^h 12 ^m 30 ^s 57.63	179° 3' 28.83	Jan. 17	JS	^h ... ^s ...	94° 49' 0.36
23	G	60.31	28.43	Feb. 14	G	...	1.46
		12 30 58.97	179 3 28.63	15	CF	...	0.92
χ Virginis.				Mar. 3	G	...	1.24
May 6	JS	12 32 16.85	97 15 7.31	13	G	...	1.20
7	G	16.88	6.87	14	CF	...	0.02
		12 32 16.87	97 15 7.09	May 7	G	...	0.80
γ^1 Virginis.				8	CF	...	1.37
May 7	G	...	90 42 29.31	June 3	G	...	1.96
8	CF	...	28.33			13 2 58	94 49 1.04
		12 34 49	90 42 28.82	66 Virginis.			
28 Virginis.				Jan. 30	G	13 17 32	94 27 25.70
Feb. 13	OF	12 34 59.01	96 45 26.83	α Virginis.			
14	G	58.97	27.23	Jan. 18	G	...	100 27 20.34
		12 34 58.99	96 45 27.03	Feb. 14	G	...	19.57
ψ Virginis.				15	CF	...	16.15
June 30	CF	12 47 20.02	98 48 16.02	24	G	...	20.40
July 1	G	20.17	16.53	Mar. 13	G	...	19.57
		12 47 20.10	98 48 16.28	14	CF	...	18.59
48 Virginis.				15	G	...	19.51
June 3	G	12 56 57.28	92 56 9.38	May 7	G	...	18.73
				8	CF	...	18.69
				June 3	G	...	19.98
				23	CF	...	18.51
				28	CF	...	17.58
				July 1	G	...	18.50
				29	JS	...	22.99
				Aug. 25	CF	...	17.50
						13 18 5	100 27 19.11

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Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
7 ^a Virginia.				86 Virginia.			
May 7	G	^h ^m ^s 13 24 56 [·] 99	95 33 26 [·] 27	Mar. 14	CF	^h ^m ^s 13 38 45 [·] 04	101 44 53 [·] 35
8	CF	56 [·] 97	26 [·] 35	15	G	45 [·] 01	55 [·] 47
		13 24 56 [·] 98	95 33 26 [·] 31	July 29	JS	44 [·] 94	54 [·] 65
						13 38 45 [·] 00	101 44 54 [·] 49
A Virginia.				89 Virginia.			
Apr. 11	CF	13 25 51 [·] 94	99 28 4 [·] 36	June 4	CF	13 42 32 [·] 56	107 27 35 [·] 72
July 1	G	51 [·] 74	4 [·] 70	5	G	32 [·] 45	35 [·] 74
		13 25 51 [·] 84	99 28 4 [·] 53			13 42 32 [·] 51	107 27 35 [·] 73
ζ Virginia.				r Virginia.			
Jan. 30	G	13 27 49 [·] 01	89 54 15 [·] 98	June 5	G	...	87 48 0 [·] 57
31	CF	...	14 [·] 94	July 29	JS	...	0 [·] 96
Feb. 2	CF	...	13 [·] 48			13 54 47	87 48 0 [·] 77
15	CF	...	13 [·] 84	94 Virginia.			
21	CF	...	14 [·] 78	Mar. 14	CF	13 59 9 [·] 12	98 14 42 [·] 96
Mar. 3	G	...	15 [·] 14	15	G	9 [·] 13	42 [·] 94
15	G	...	15 [·] 58			13 59 9 [·] 13	98 14 42 [·] 95
Apr. 11	CF	...	14 [·] 32	κ Virginia.			
May 8	CF	...	14 [·] 68	May 9	G	14 5 41 [·] 96	99 38 35 [·] 67
June 4	CF	...	13 [·] 92	July 3	CF	...	36 [·] 51
		13 27 49 [·] 01	89 54 14 [·] 67	29	JS	41 [·] 78	35 [·] 66
83 Virginia.						14 5 41 [·] 87	99 38 35 [·] 95
June 4	CF	13 37 13 [·] 16	105 29 54 [·] 49				
5	G	13 [·] 21	55 [·] 47				
		13 37 13 [·] 19	105 29 54 [·] 98				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Boötis.				z Octantis S.P.			
Apr. 11	CF	^{h m s} ...	70° 6' 48.96	July 21	G	^{h m s} 14 25 31.13	177° 35' 17.73
May 9	G	...	46.48	22	G	29.08	...
		14 9 30	70 6 47.72	23	G	33.92	17.05
				28	G	...	16.42
						14 25 31.38	177 35 17.07
λ Virginis.				α^2 Centauri.			
Jan. 30	G	14 11 48.59	102 44 52.27	Nov. 12	G	...	150 16 35.31
31	CF	...	51.67	20	CF	...	37.43
Feb. 3	G	...	51.79	21	JS	...	36.95
6	G	...	50.61	23	G	...	36.04
15	CF	48.66	50.21	24	CF	...	36.23
Apr. 11	CF	48.65	49.52	26	G	...	36.18
12	G	48.68	51.80	Dec. 1	CF	...	34.95
May 9	G	48.68	47.62	3	CF	...	38.21
July 3	CF	...	51.46	4	JS	...	37.71
		14 11 48.65	102 44 50.77			14 30 28	150 16 36.56
z Libræ.				α^2 Centauri (Reflexion).			
Apr. 11	CF	14 17 10.15	101 5 43.78	Nov. 12	G	...	150 16 37.02
12	G	10.22	43.75	20	CF	...	39.19
		14 17 10.19	101 5 43.77	21	JS	...	37.15
z Octantis.				23	G	...	37.33
July 18	G	...	177 35 13.27	24	CF	...	37.52
21	G	14 25 32.09	14.21	26	G	...	38.00
22	G	31.70	15.15	Dec. 1	CF	...	37.89
23	G	28.35	...	3	CF	...	37.87
29	JS	...	11.79	4	JS	...	36.96
		14 25 30.71	177 35 13.61			14 30 28	150 16 37.66

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α^1 Centauri.				α Libræ.			
Nov. 23	G	^h ^m ^s ...	150° 16' 27 ^o ·08	Feb. 3	G	^h ^m ^s 14 43 24 ^o ·83	° ...
24	CF	...	29·95	6	G	...	105 28 42·38
26	G	...	27·23	9	G	...	42·07
Dec. 1	CF	...	29·39	14	G	...	42·58
3	CF	...	30·24	15	CF	...	42·22
4	JS	...	28·44	20	G	24·80	41·98
		14 30 28	150 16 28·72	21	CF	...	43·58
α^1 Centauri (Reflexion).				24	G	...	42·42
Nov. 23	G	...	150 16 29·37	25	CF	...	42·43
24	CF	...	29·19	28	CF	...	41·49
26	G	...	27·53	Mar. 15	G	...	43·79
Dec. 1	CF	...	29·70	May 9	G	...	42·09
3	CF	...	29·70	10	CF	...	41·82
4	JS	...	27·63	June 5	G	...	42·19
		14 30 28	150 16 28·85	6	CF	...	40·55
ζ Libræ.				Sept. 24	CF	...	41·43
Mar. 15	G	14 38 31·50	104 53 17·62	Dec. 8	G	24·86	...
June 6	CF	31·39	13·37			14 43 24·83	105 28 42·20
		14 38 31·45	104 53 15·50	ϵ^1 Libræ.			
ϵ^2 Boötis.				Apr. 12	G	15 4 31·91	109 16 41·70
May 9	G	14 39 5·51	62 21 16·60	May 9	G	31·91	40·99
B.A.C. 4883.				10	CF	31·89	41·24
Aug. 2	JS	14 41 37·97	172 29 24·56			15 4 31·90	109 16 41·31
β Libræ.				Feb. 20	G	15 9 44·73	98 52 56·33
				21	CF	...	56·94
				25	CF	...	55·49
				28	CF	...	55·12
				Mar. 15	G	...	56·58

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>β Libræ—continued.</i>				<i>α Serpentis.</i>			
Apr. 12	G	^h ^m ^s ...	98° 52' 56".84	Sept. 24	CF	^h ^m ^s 15 37 37	83° 8' 49".11
May 9	G	...	56.54	<i>θ Libræ.</i>			
10	CF	...	55.05	Aug. 1	JS	15 46 8.68	106 19 48.37
June 6	CF	...	54.02	<i>δ¹ Scorpil.</i>			
23	CF	...	54.58	May 10	CF	15 52 21.33	112 14 3.39
Sept. 24	CF	...	56.12	11	G	21.27	4.14
Dec. 8	G	15 9 44.73	...	Sept. 24	CF	21.35	2.87
14	G	44.70	...	25	JS	21.34	3.52
		15 9 44.72	98 52 55.78			15 52 21.32	112 14 3.48
<i>ρ Ootantis.</i>				<i>β¹ Scorpil.</i>			
Aug. 18	G	15 12 39.87	174 0 18.42	Jan. 30	G	15 57 35.45	...
<i>ρ Ootantis S.P.</i>				Feb. 3	G	35.47	...
Aug. 17	G	15 12 40.67	174 0 19.64	May 10	CF	...	109 25 58.96
<i>ζ¹ Libræ.</i>				June 8	CF	...	56.31
Apr. 12	G	15 20 38.99	106 14 35.54	Aug. 29	JS	...	58.41
June 6	CF	38.88	34.57	Sept. 23	JS	...	57.45
		15 20 38.94	106 14 35.06	24	CF	...	57.51
<i>γ Libræ.</i>				25	JS	...	58.87
June 6	CF	15 27 58.53	104 20 8.31	Dec. 14	G	35.48	...
<i>α Coronæ Borealis.</i>				21	G	35.48	...
May 10	CF	15 28 58	62 49 46.79			15 57 35.47	109 25 57.92
				<i>ν Scorpil.</i>			
				June 8	CF	16 4 9.23	109 6 23.71
				Aug. 29	JS	9.25	...
						16 4 9.24	109 6 23.71

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Ophiuchi.				γ Apodis S.P.			
Jan. 5	G	^h 16 ^m 7 ^s 16.43	° ... '	Aug. 25	G	^h 16 ^m 12 ^s 51.48	° ... '
30	G	16.43	...	30	G	50.79	168 35 9.95
Feb. 3	G	16.44	93 20 38.62	Sept. 2	G	51.13	...
June 8	CF	...	36.87	4	G	50.81	...
Aug. 1	JS	...	38.95			16 12 51.05	168 35 9.95
29	JS	...	38.69	σ Scorpii.			
Sept. 25	JS	...	38.05	June 8	CF	16 12 59.26	115 15 54.17
Dec. 14	G	16.51	...	ψ Ophiuchi.			
21	G	16.42	...	Aug. 1	JS	16 16 12.44	109 43 5.29
28	G	16.44	...	2	JS	12.45	5.12
		16 7 16.45	93 20 38.24			16 16 12.45	109 43 5.21
B.A.C. 5412.				α Scorpii.			
Aug. 19	G	16 11 22.47	176 5 39.09	Jan. 4	G	...	116 7 44.26
B.A.C. 5412 S.P.				5	G	16 21 8.03	44.50
Aug. 18	G	16 11 23.07	176 5 40.26	30	G	7.98	...
19	G	21.89	39.00	Feb. 3	G	7.96	44.87
23	G	22.33	39.41	20	G	8.03	...
		16 11 22.43	176 5 39.56	May 11	G	...	44.49
γ Apodis.				June 8	CF	...	42.99
Aug. 25	G	16 12 51.19	168 35 8.33	Aug. 1	JS	...	45.09
31	G	51.28	8.43	2	JS	...	46.58
Sept. 1	G	51.29	...	Sept. 25	JS	...	43.92
5	G	50.92	...	Dec. 8	G	8.01	...
		16 12 51.17	168 35 8.38	10	G	...	45.36
				11	G	...	43.49
				14	G	8.12	...

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
<i>α Scorp̄ii—continued.</i>				<i>ν Serp̄entis.</i>			
Dec. 18	G	^h ^m ^s	116° 7' 45" 11	Mar. 18	JS	^h ^m ^s 17 13 14' 40	102° 42' 24" 08
20	G	...	44' 20	Aug. 29	JS	14' 25	24' 03
21	G	16 21 8' 08	...	30	JS	14' 06	22' 94
28	G	8' 04	...			17 13 14' 24	102 42 23' 68
		16 21 8' 03	116 7 44' 57	<i>θ Ophiuchi.</i>			
<i>ω Ophiuchi.</i>				June 9	JS	...	114 51 39' 35
Mar. 18	JS	16 24 8' 27	111 10 26' 75	Aug. 2	JS	...	40' 24
Aug. 1	JS	8' 25	27' 66	Sept. 27	CF	...	39' 53
2	JS	8' 40	27' 63			17 13 43	114 51 39' 71
		16 24 8' 31	111 10 27' 35	<i>ξ Serp̄entis.</i>			
<i>κ Ophiuchi.</i>				June 9	JS	17 29 51' 46	105 18 38' 02
June 8	CF	...	80 24 44' 08	Aug. 2	JS	51' 51	36' 56
Aug. 25	CF	...	45' 64	3	CF	51' 27	38' 16
		16 51 17	80 24 44' 86	Oct. 23	CF	51' 50	...
<i>η Ophiuchi.</i>						17 29 51' 44	105 18 37' 58
Mar. 18	JS	17 2 38' 31	105 33 15' 36	<i>ο Serp̄entis.</i>			
June 8	CF	38' 27	13' 02	Aug. 2	JS	17 33 49' 82	102 47 58' 17
9	JS	38' 37	15' 44	3	CF	49' 77	60' 34
Aug. 30	JS	38' 22	16' 07			17 33 49' 80	102 47 59' 26
Oct. 23	CF	38' 21	...	<i>B.A.C. 5936.</i>			
		17 2 38' 28	105 33 14' 97	Sept. 11	G	...	177 39 1' 96
<i>α Herculis.</i>				13	G	17 35 19' 18	2' 13
Sept. 27	CF	17 8 29	75 27 10' 90	14	CF	18' 04	...
						17 35 18' 61	177 39 2' 05

Date.	Observer.	B.A.	N.P.D.	Date.	Observer.	B.A.	N.P.D.
B.A.C. 5936 S.P.				σ Octantis S.P.—continued.			
Sept. 13	G	^h 17 ^m 35 ^s 18.53	177° 39' 3".93	Feb. 23	JS	^h ... ^s ...	179° 16' 47".06
4 Sagittarii.				24	JS	...	45.66
				28	JS	...	45.71
Apr. 16	G	17 51 33.04	113 47 60.94	Mar. 10	JS	...	45.45
July 7	CF	...	58.78	20	G	17 57 11.39	44.71
Aug. 30	JS	32.91	62.71	Sept. 19	G	14.56	...
31	CF	32.99	59.66	24	G	16.33	...
		17 51 32.98	113 48 0.52			17 57 14.09	179 16 45.65
σ Octantis.				μ Sagittarii.			
Mar. 20	G	17 57 11.08	179 16 42.98	Mar. 20	G	...	111 5 26.20
Aug. 17	JS	9.92	45.14	Apr. 16	G	...	26.27
Sept. 11	G	...	43.38	June 9	JS	...	24.74
13	G	9.80	43.36	July 7	CF	...	25.08
20	G	14.99	43.25	Aug. 3	CF	...	27.14
23	G	15.03	...	17	JS	...	25.25
24	G	17.39	...	30	JS	...	25.93
		17 57 13.04	179 16 43.62	31	CF	...	25.83
σ Octantis S.P.				Sept. 27	CF	...	25.37
Feb. 2	JS	...	179 16 45.61			18 5 41	111 5 25.76
3	JS	...	46.76	21 Sagittarii.			
4	JS	...	45.66	Sept. 27	CF	18 17 18.50	110 36 36.86
6	JS	...	44.79	λ Sagittarii.			
9	JS	...	45.90	June 9	JS	18 19 38.51	115 29 33.66
10	JS	...	45.52	24 Sagittarii.			
13	JS	...	45.83	Sept. 27	CF	18 25 38.63	114 7 45.00
14	JS	...	45.49				
17	JS	...	44.97				
20	JS	...	46.11				
22	JS	...	45.22				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
α Lyræ.				π Sagittarii.			
Apr. 16	G	^m ... ^s	51° 20' 25.30	Apr. 16	G	^h 19 ^m 1 ^s 44.07	111° 14' 5.41
Aug. 31	CF	...	22.95	17	CF	(44.69)	5.20
		18 32 22	51 20 24.13	June 11	G	43.85	5.00
β Lyræ.				July 7	CF	44.01	3.64
July 7	CF	18 45 5.81	56 47 32.35			19 1 43.98	111 14 4.81
Aug. 31	CF	...	28.12	δ Sagittarii.			
		18 45 5.81	56 47 30.24	July 7	CF	19 9 44.19	109 11 22.07
ξ^2 Sagittarii.				ω Aquilæ.			
Aug. 31	CF	...	111 16 51.68	Apr. 17	CF	...	78 38 42.37
Sept. 1	CF	18 49 40.55	49.99	Sept. 1	CF	19 11 28.81	...
		18 49 40.55	111 16 50.84			19 11 28.81	78 38 42.37
σ Sagittarii.				ρ Sagittarii.			
Aug. 31	CF	...	111 56 8.41	Apr. 16	G	...	108 5 52.65
Sept. 1	CF	18 56 35.55	8.24	June 11	G	19 13 50.45	52.54
		18 56 35.55	111 56 8.33			19 13 50.45	108 5 52.60
ζ Aquilæ.				ν Sagittarii.			
Apr. 17	CF	...	76 20 2.76	Sept. 28	JS	...	106 12 19.06
Sept. 1	CF	18 59 12.50	3.75	29	CF	19 13 59.76	18.64
		18 59 12.50	76 20 3.26			19 13 59.76	106 12 18.85

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
δ Aquilæ.				α Aquilæ.			
Sept. 28	JS	^h ^m ^s ... 87° 9' 4" 12		Jan. 30	G	^h ^m ^s 19 44 11' 84	[°] ...
29	CF	19 18 41' 63	...	Feb. 1	G	...	81 29 8' 10
		19 18 41' 63	87 9 4' 12	3	G	11' 97	8' 41
λ^2 Sagittarii.				5	JS	...	6' 39
Apr. 16	G	...	115 10 44' 54	6	G	...	7' 82
17	CF	...	42' 88	7	G	...	9' 61
June 11	G	...	41' 15	8	G	...	7' 87
Sept. 1	CF	19 28 29' 37	43' 33	10	G	...	7' 34
2	JS	...	42' 14	12	G	...	8' 47
28	JS	...	42' 46	13	G	...	8' 84
29	CF	29' 19	41' 98	14	G	...	8' 70
		19 28 29' 28	115 10 42' 64	15	JS	...	7' 42
ϵ Sagittarii.				19	G	...	6' 78
Sept. 1	CF	19 34 47' 75	106 26 13' 75	20	G	11' 87	8' 25
2	JS	47' 65	13' 11	Apr. 17	CF	...	7' 24
28	JS	47' 69	13' 90	June 11	G	...	6' 50
29	CF	47' 78	15' 40	Sept. 1	CF	11' 75	...
		19 34 47' 72	106 26 14' 04	2	JS	...	7' 19
γ Aquilæ.				29	CF	11' 78	...
Apr. 17	CF	...	79 42 45' 39			19 44 11' 84	81 29 7' 81
Sept. 1	CF	19 39 50' 49	...	ϵ Pavonis.			
29	CF	50' 55	...	Apr. 6	G	19 44 54' 81	163 15 37' 30
		19 39 50' 52	79 42 45' 39	7	G	54' 97	...
				8	G	...	38' 76
				20	G	54' 87	37' 09
				24	G	54' 83	37' 21
						19 44 54' 87	163 15 37' 59

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Pavonis S.P.				B.A.C. 6900.			
Apr. 3	JS	^h ^m ^s ...	163° 15' 39.57	Apr. 20	G	^h ^m ^s 20 0 44.09	170° 0' 16.04
7	G	19 44 55.22	44.09	24	G	44.03	17.68
8	G	55.02	40.82			20 0 44.06	170 0 16.86
9	G	...	38.98	B.A.C. 6900 S.P.			
20	G	54.79	38.99				
21	G	54.73	39.75	Apr. 20	G	20 0 43.95	170 0 19.75
24	G	54.74	39.30	21	G	44.18	20.12
		19 44 54.90	163 15 40.21	24	G	43.90	19.16
β Aquilæ.						20 0 44.01	170 0 19.68
Sept. 1	CF	19 48 40.89	83 55 40.03	α^1 Capricorni.			
2	JS	...	40.41	Sept. 2	JS	20 10 9.93	102 55 18.52
		19 48 40.89	83 55 40.22	8	JS	...	22.26
γ Sagittarii.				30	JS	...	19.51
Apr. 17	CF	19 50 17.67	105 50 48.34			20 10 9.93	102 55 20.10
63 Sagittarii.				α^2 Capricorni.			
Apr. 17	CF	19 54 24.89	104 0 29.42	Feb. 20	G	20 10 33.83	...
B.A.C. 6859.				June 11	G	...	102 57 36.73
Apr. 20	G	19 55 40.03	173 42 58.59	Sept. 1	CF	33.73	37.07
24	G	39.50	57.22	2	JS	...	38.40
		19 55 39.77	173 42 57.91	8	JS	...	38.22
B.A.C. 6859 S.P.				29	CF	33.84	38.15
Apr. 20	G	19 55 40.29	173 42 60.24	30	JS	...	37.47
21	G	39.78	59.18	Oct. 27	CF	...	38.69
24	G	39.49	59.43			20 10 33.80	102 57 37.82
		19 55 39.85	173 42 59.62				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ρ Capricorni.				B Octantis S.P.			
June 11	G	^h ^m ^s ...	108° 15' 25.53	May 1	G	^h ^m ^s 20 46 39.05	179° 27' 48.20
Sept. 29	CF	20 21 9.48	27.93	2	CF	39.67	48.00
30	JS	...	26.69	4	G	57.80	48.25
		20 21 9.48	108 15 26.72	5	G	49.00	48.67
				9	G	42.69	47.90
						20 46 45.64	179 27 48.20
ϵ Aquarii.				ν Aquarii.			
Sept. 2	JS	20 40 21.93	99 59 14.49	Aug. 7	JS	21 2 14.34	101 54 59.12
30	JS	22.07	14.07				
Oct. 27	CF	21.94	14.49	β Aquarii.			
28	JS	22.09	14.04	Mar. 20	G	21 24 27.02	...
Nov. 24	CF	22.03	14.98	May 22	G	...	96 9 47.38
		20 40 22.01	99 59 14.41	26	G	...	48.30
				30	G	...	47.06
μ Aquarii.				June 3	G	...	45.16
Sept. 2	JS	20 45 22.24	99 29 15.05	4	G	...	46.84
Oct. 28	JS	22.27	14.49	8	G	...	46.45
		20 45 22.26	99 29 14.77	15	G	...	46.42
				July 11	CF	27.11	47.72
B Octantis.				Aug. 7	JS	...	46.63
May 1	G	20 46 35.03	179 27 42.99	Sept. 30	JS	...	50.26
2	G	...	46.29	Nov. 24	CF	...	47.91
3	G	54.96	46.40	25	JS	27.09	46.77
5	G	47.07	47.09			21 24 27.07	96 9 47.24
7	G	59.14	47.34				
		20 46 49.05	179 27 46.02	ξ Aquarii.			
				Sept. 30	JS	21 30 33.91	98 27 27.85
				Oct. 28	JS	33.91	26.94
						21 30 33.91	98 27 27.40

296 *Mean R.A. and N.P.D. of Stars, observed at the*

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
ϵ Pegasi.				α Gruis— <i>continued</i> .			
Mar. 20	G	^{h m s} 21 37 33.41	^{° ' "}	Mar. 1	JS	^{h m s} ...	^{° ' "} 137 36 44.84
July 11	OF	33.41	...	2	JS	...	45.57
		21 37 33.41	80 45			21 59 43	137 36 46.33
λ Capricorni.				θ Aquarii.			
July 11	CF	21 39 16.08	101 59 10.53	June 4	G	...	98 27 15.01
16 Pegasi.				8	G	...	14.50
July 11	CF	21 46 55.21	64 42 30.01	14	OF	...	14.54
α Aquarii.				15	G	...	13.91
Mar. 20	G	21 58 51.01	...	21	G	...	14.10
28	G	...	90 58 26.14	22	G	...	13.49
29	G	...	27.08	Aug. 7	JS	...	13.40
30	G	...	27.61	Oct. 28	JS	...	14.49
July 11	CF	50.86	26.36	Nov. 25	JS	22 9 42.53	13.35
Nov. 25	JS	50.98	27.22	26	OF	42.59	13.73
α Gruis.						22 9 42.56	98 27 14.05
Feb. 4	JS	...	137 36 47.68	γ Aquarii.			
8	JS	...	47.08	Nov. 25	JS	22 14 41.04	92 3 58.48
9	JS	...	45.20	26	OF	41.02	...
13	JS	...	47.61			22 14 41.03	92 3 58.48
14	JS	...	46.36	ζ Aquarii (as one mass).			
15	JS	...	45.68	July 11	OF	22 21 52.92	90 42 34.08
17	JS	...	45.73	σ Aquarii.			
19	JS	...	45.95	Aug. 7	JS	22 23 29.98	101 22 3.42
21	JS	...	47.13				
23	JS	...	46.65				
24	JS	...	46.75				

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
η Aquarii.				α Piscis Australis—continued.			
May 22	G	^{h m s} ...	90° 48' 42" 79	Mar. 1	JS	^{h m s} ...	120° 20' 10" 77
28	G	...	42° 27	2	JS	...	10° 70
30	G	...	42° 06	3	JS	...	11° 69
June 3	G	...	43° 10	6	JS	...	10° 13
4	G	...	43° 45	13	G	...	11° 57
8	G	...	43° 83	14	G	...	10° 93
15	G	...	44° 23	15	G	...	11° 95
21	G	...	42° 15	17	G	...	10° 95
22	G	...	42° 93	19	G	...	12° 07
July 11	CF	22 28 25° 22	43° 76	20	G	22 50 11° 03	11° 41
Sept. 5	JS	...	43° 12	24	G	...	11° 98
Nov. 25	JS	25° 23	43° 04	26	G	...	10° 95
26	CF	25° 18	...	28	G	...	12° 20
		22 28 25° 21	90 48 43° 06	29	G	...	11° 57
				30	G	...	11° 55
ζ Pegasi.				Apr. 2	G	...	10° 86
Nov. 26	CF	22 34 43° 84	79 52	4	G	...	11° 52
α Piscis Australis.				6	G	11° 16	...
Jan. 23	CF	...	120 20 9° 05	7	G	...	11° 61
Feb. 2	JS	...	11° 18	11	CF	...	10° 81
4	JS	...	11° 61	12	CF	...	12° 53
6	JS	...	10° 54	May 28	G	...	11° 22
7	JS	...	10° 64	June 14	CF	...	9° 64
8	JS	...	12° 63	22	G	...	11° 53
9	JS	...	11° 09	23	G	...	10° 23
11	JS	...	11° 41	July 12	JS	...	11° 80
14	JS	...	11° 63	13	G	11° 08	11° 57
16	JS	...	11° 86	28	G	11° 18	...
18	JS	...	12° 62	Aug. 5	G	10° 93	10° 16
20	JS	...	12° 44	15	G	11° 01	...
22	JS	...	10° 45	18	G	11° 03	...
24	JS	...	10° 71	19	G	10° 97	...
25	JS	...	11° 54	Sept. 5	JS	...	11° 37
28	JS	...	(6° 61)	Nov. 1	G	10° 93	...
						22 50 11° 04	120 20 11° 17

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
β Piscium.				τ Octantis S.P.			
June 15	G	$22^{\text{h}} 57^{\text{m}} 0.65^{\text{s}}$	$86^{\circ} 54' 20.03''$	May 31	CF	$23^{\text{h}} 6^{\text{m}} 8.68^{\text{s}}$	$178^{\circ} 13' 20.85''$
α Pegasi.				June 1	JS	8.06	17.21
Mar. 20	G	$22 58 2.27$	...	2	CF	9.80	18.74
28	G	...	$75 31 14.13$	3	G	10.13	17.91
29	G	...	12.60	6	G	10.51	20.03
30	G	...	13.02	7	G	9.91	19.55
Apr. 2	G	...	12.71	9	G	5.86	19.18
4	G	...	11.97	15	G	...	20.37
6	G	2.24	...	16	G	...	19.00
7	G	...	13.07	ϕ Aquarii.			
11	CF	...	12.01				
12	G	...	12.76	Sept. 5	JS	$23 7 19.72$	$96 46 33.59$
June 21	G	...	13.58	γ Piscium.			
23	G	...	14.16	June 14	CF	...	$87 27 17.51$
July 13	G	2.32	13.68	Aug. 5	G	$23 10 10.14$	16.41
28	G	2.25	14.03	9	JS	...	16.56
Aug. 5	G	2.34	12.85	12	G	10.11	...
12	G	2.37	14.19	15	G	10.14	16.59
15	G	2.23	12.69	18	G	10.13	...
18	G	2.22	...	19	G	10.14	...
19	G	2.25	...	Nov. 26	CF	10.02	17.76
Nov. 26	CF	2.27	...	27	G	10.14	17.14
τ Octantis.				κ Piscium.			
May 30	G	$23 6 6.72$	$178 13 13.13$				
June 1	G	10.33	19.18	July 12	JS	...	$89 28 57.69$
3	G	8.69	16.35	13	G	$23 20 0.80$	57.37
5	G	12.86	17.98	22	G	0.84	57.66
6	G	9.08	...	28	G	0.81	58.41
8	G	11.95	17.55				
21	G	12.15	17.76				
$23 6 10.25$							
$178 13 16.99$							

Date.	Observer.	R.A.	N.P.D.	Date.	Observer.	R.A.	N.P.D.
κ Piscium—continued.				19 Piscium.			
Aug. 5	G	^h 23 ^m 20 ^s 0.81	° ... "	Sept. 5	JS	^h 23 ^m 39 ^s 29.71	87° 15' 42" 18
9	JS	...	89 28 57.63	6	CF	29.67	41.67
12	G	0.76	...			23 39 29.69	87 15 41.93
15	G	0.76	57.36	δ Sculptoris.			
19	G	0.79	...				
Sept. 5	JS	...	57.95	July 22	G	23 41 53.37	118 52 35.78
Nov. 26	CF	0.66	57.75	28	G	53.47	34.87
27	G	0.78	58.42	Aug. 3	G	53.17	36.17
		23 20 0.78	89 28 57.80	5	G	53.30	...
9 Piscium.				7	G	53.37	36.10
Sept. 5	JS	23 20 19.95	89 37	Sept. 6	CF	53.25	...
ϵ Piscium.				Oct. 31	CF	53.37	...
July 12	JS	...	85 6 17.74	Nov. 17	CF	...	35.60
22	G	23 33 0.43	17.80			23 41 53.33	118 52 35.70
28	G	0.48	17.79	ω Piscium.			
Aug. 5	G	0.52	...	Aug. 3	G	23 52 22.92	83 53 2.26
7	G	0.41	17.96	5	G	22.85	...
12	G	0.56	...	7	G	22.87	1.41
15	G	0.51	...	Sept. 6	CF	22.88	0.58
Sept. 5	JS	...	17.93	Oct. 31	CF	22.89	0.46
6	CF	0.59	17.61	Nov. 17	CF	...	0.89
Oct. 31	CF	0.49	16.60			23 52 22.88	83 53 1.12
Nov. 17	CF	...	17.94	ϵ^2 Piscium.			
27	G	0.51	18.37	Aug. 9	JS	23 55 35.93	82 15 51.52
		23 33 0.50	85 6 17.75				

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

CATALOGUE

OF

MEAN RIGHT ASCENSIONS

AND

MEAN DECLINATIONS,

FOR

1865⁰,

OF

STARS OBSERVED IN THE YEAR 1865.

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°o.	Annual Variation 1864°o.
					h m s	s			° ' "	"
1	γ Pegasi.....	3·0	0·00	11	0 6 17·20	+3·081	0·00	5	+14 25 59·48	+20·04
2	\circ Octantis.....	7·2	0·47	2	0 13 18·74	-1·950	0·47	2	-89 6 48·96	+20·02
3	\circ Octantis S.P....	...	0·47	1	17·47	...	0·49	4	50·33	...
4	δ Piscium	5·6	0·66	5	0 13 39·19	+3·081	0·66	5	+ 7 26 25·91	+20·04
5	β Hydri.....	2·9	0·00	18	0 18 36·24	+3·285	0·00	18	-78 0 52·23	+20·25
6	β Hydri S.P.....	...	0·00	17	36·15	...	0·00	10	54·43	...
7	10 Ceti	6·2	0·91	1	0 19 42·14	+3·074	0·91	1	- 0 47 49·63	+19·99
8	12 Ceti	6·2	0·00	7	0 23 9·02	+3·061	0·00	6	- 4 42 11·74	+19·95
9	β Ceti	2·1	0·00	9	0 36 48·66	+3·015	0·00	33	-18 43 39·84	+19·83
10	δ Piscium	4·6	0·57	6	0 41 40·89	+3·105	0·57	6	+ 6 51 0·39	+19·69
11	ϵ Piscium	4·5	0·00	4	0 55 56·38	+3·106	0·00	6	+ 7 9 46·22	+19·50
12	ζ Piscium (1st Star)	5·2	0·84	4	1 6 40·85	+3·126	0·84	4	+ 6 51 39·51	+19·16
13	ζ Piscium (2nd Star)	7·7	0·76	2	1 6 42·29	+3·126	0·76	2	+ 6 51 47·75	+19·16
14	θ Ceti.....	3·8	0·00	10	1 17 16·60	+2·996	0·00	5	- 8 52 50·44	+18·73
15	η Piscium	3·7	0·00	4	1 24 15·83	+3·197	0·00	1	+14 38 58·39	+18·71
16	ν Piscium	4·7	0·00	3	1 34 24·51	+3·114	0·00	5	+ 4 48 12·39	+18·38
17	\circ Piscium	4·4	0·51	4	1 38 16·09	+3·158	0·61	5	+ 8 28 38·54	+18·30
18	β Arietis	2·8	0·00	3	1 47 11·31	+3·298	0·00	1	+20 8 49·02	+17·80
19	α Arietis	2·0	0·00	7	1 59 34·11	+3·365	0·00	6	+22 49 21·56	+17·26
20	ξ Ceti.....	4·5	0·69	8	2 5 50·92	+3·170	0·69	8	+ 8 12 44·30	+17·11
21	67 Ceti.....	5·5	0·00	7	2 10 15·12	+2·987	0·00	1	- 7 2 44·09	+16·80
22	ξ Ceti.....	4·4	0·00	12	2 20 59·09	+3·180	0·00	10	+ 7 51 12·68	+16·38
23	γ Ceti	3·0	0·00	8	2 36 18·48	+3·100	0·00	1	+ 2 39 54·49	+15·42
24	μ Ceti.....	4·4	0·44	5	2 37 38·89	+3·231	0·44	5	+ 9 32 32·98	+15·48
25	α Ceti.....	2·7	0·00	7	2 55 13·52	+3·127	0·00	8	+ 3 33 30·50	+14·40
26	δ Arietis	4·5	0·00	3	3 3 54·92	+3·416	0·00	5	+19 12 50·49	+13·95
27	ζ Arietis	4·9	0·01	1	3 7 8·75	+3·434	0·01	1	+20 32 31·66	+13·68
28	f Tauri	4·3	0·46	5	3 23 25·38	+3·301	0·46	5	+12 28 19·10	+12·69
29	η Tauri	3·0	0·00	4	3 39 27·86	+3·551	0·00	4	+23 41 5·65	+11·51
30	γ Hydri.....	3·1	0·17	3	3 49 21·79	-1·018	0·17	4	-74 39 6·34	+10·94

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°o.	Annual Variation 1864°o.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°o.	Annual Variation 1864°o.
					<i>h m s</i>	<i>s</i>			<i>° ' "</i>	<i>"</i>
31	γ ¹ Eridani	3·10·00	7	3 51 43·96	+2·795	0·00	14	—13 53 39·41	+10·55	
32	λ Tauri	Var. 0·89	3	3 53 12·20	+3·315	0·88	4	+12 6 24·06	+10·53	
33	Α Tauri	4·50·99	2	3 56 43·12	+3·534	0·99	2	+21 42 37·28	+10·22	
34	ο ¹ Eridani	4·10·00	8	4 5 16·66	+2·923	0·00	6	— 7 11 29·65	+ 9·71	
35	γ Tauri	3·9 ...	...	4 12 7	+3·405	0·84	1	+15 17 57·90	+ 9·08
36	ε Tauri	3·70·00	5	4 20 44·17	+3·494	0·00	7	+18 52 41·92	+ 8·39	
37	α Tauri	1·00·00	11	4 28 10·63	+3·434	0·00	21	+16 14 6·66	+ 7·64	
38	B.A.C. 1454	5·80·66	6	4 33 3·83	—5·640	0·65	3	—81 52 54·31	+ 7·42	
39	B.A.C. 1454 S.P. ...	... 0·66	4	3·97	...	0·66	2	54·40	...
40	τ Tauri	4·40·39	2	4 34 8·87	+3·591	0·69	1	+22 41 43·45	+ 7·33	
41	β Orionis	1·00·00	8	5 8 3·06	+2·879	0·00	18	— 8 21 35·63	+ 4·52	
42	β Tauri	1·90·00	4	5 17 45·52	+3·787	0·00	5	+28 29 25·30	+ 3·50	
43	ο Tauri	4·80·02	2	5 19 31·85	+3·598	0·02	2	+21 49 3·64	+ 3·53	
44	119 Tauri	4·60·17	1	5 24 17·94	+3·513	0·17	1	+18 29 27·08	+ 3·11	
45	δ Orionis	Var. 0·00	7	5 25 6·65	+3·061	0·00	12	— 0 24 5·48	+ 3·04	
46	α Leporis	2·70·00	5	5 26 46·54	+2·643	0·00	1	—17 55 15·50	+ 2·91	
47	ε Orionis	1·80·00	5	5 29 21·84	+3·040	0·00	7	— 1 17 25·65	+ 2·68	
48	ζ Tauri	3·00·43	4	5 29 34·74	+3·582	0·32	3	+21 3 24·90	+ 2·64	
49	α Columbæ	2·70·00	25	5 34 45·61	+2·172	0·00	9	—34 8 50·58	+ 2·16	
50	χ ¹ Orionis	4·70·80	3	5 46 23·38	+3·549	0·60	3	+20 14 52·42	+ 1·10	
51	α Orionis	Var. 0·00	8	5 47 51·84	+3·246	0·00	13	+ 7 22 45·49	+ 1·09	
52	B.A.C. 1898	5·60·21	1	5 47 57·98	—4·930	0·21	1	—80 33 58·03	+ 0·12	
53	B.A.C. 1898 S.P. ...	... 0·21	1	57·61	...	0·21	1	59·07	...
54	ν Orionis	4·4 ...	...	5 59 52	+3·425	0·00	11	+14 46 55·30	0·00
55	η Geminorum ...	Var. 0·02	2	6 6 43·90	+3·622	0·02	1	+22 32 34·32	— 0·59	
56	μ Geminorum ...	3·2 ...	...	6 14 48	+3·631	0·00	8	+22 34 47·32	— 1·39
57	α Argûs	—1·00·00	1	6 20 57·29	+1·330	...	...	—52 37	— 1·83
58	γ Geminorum ...	2·0 ...	...	6 29 55	+3·467	0·00	6	+16 30 40·93	— 2·64
59	ξ Geminorum ...	3·40·40	2	6 37 42·69	+3·369	0·10	2	+13 2 19·19	— 3·48	
60	α Canis Majoris ..	—1·40·00	18	6 39 11·77	+2·644	0·00	34	—16 31 59·22	— 4·61	

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°0.	Annual Variation 1864°0.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°0.	Annual Variation 1864°0.
					^h ^m ^s	^s			[°] ['] ["]	["]
61	ε Canis Majoris...	1.5	0.00	3	6 53 19.21	+2.356	0.00	26	—28 47 24.14	—4.60
62	ζ Geminorum ...	Var.	0.40	3	6 56 6.05	+3.563	0.33	4	+20 45 54.17	—4.85
63	λ Geminorum ...	3.6	0.93	2	7 10 20.03	+3.453	0.93	2	+16 46 51.90	—6.09
64	δ Geminorum ...	3.7	0.00	1	7 12 3.63	+3.589	0.00	5	+22 13 41.21	—6.19
65	63 Geminorum...	5.3	0.18	2	7 19 43.42	+3.568	0.18	2	+21 43 6.55	—6.93
66	68 Geminorum...	5.0	0.93	2	7 25 54.09	+3.429	0.93	2	+16 6 51.30	—7.34
67	α Canis Minoris..	0.5	0.00	7	7 32 14.03	+3.145	0.00	2	+5 34 6.08	—8.87
68	β Geminorum ...	1.1	0.00	1	7 37 2.97	+3.682	...	...	+28 21	—8.29
69	1 Cancri.....	5.9	0.10	2	7 49 19.46	+3.413	0.10	2	+16 8 54.63	—9.23
70	5 Cancri.....	6.4	0.15	3	7 53 48.56	+3.426	0.15	3	+16 49 29.58	—9.55
71	6 Cancri.....	5.0	...	...	7 55 13	+3.697	0.00	1	+28 10 12.03	—9.70
72	8 Cancri.....	5.1	0.25	1	7 57 33.18	+3.349	0.25	1	+13 30 1.35	—9.90
73	15 Argūs	2.9	0.00	6	8 1 47.71	+2.553	0.00	4	—23 55 1.60	—10.10
74	ζ Cancri	5.0	0.44	2	8 4 28.24	+3.449	...	...	+18 3	—10.46
75	δ ¹ Cancri	5.9	0.18	2	8 15 37.92	+3.444	0.18	2	+18 45 48.12	—11.21
76	Δ Octantis	7.8	0.34	2	8 17 7.20	—38.217	0.34	2	—88 28 19.85	—11.46
77	Δ Octantis S.P...	...	0.33	2	7.34	...	0.33	3	22.99	...
78	29 Canori	5.9	0.13	3	8 21 5.24	+3.355	0.18	2	+14 39 20.10	—11.58
79	η Canori.....	5.5	0.00	3	8 24 53.86	+3.480	0.00	5	+20 53 51.91	—11.89
80	ο ¹ Canori	5.9	0.33	2	8 29 46.53	+3.257	0.33	2	+10 7 21.79	—12.20
81	39 Canori	7.0	0.93	1	8 32 20.24	+3.458	0.93	1	+20 28 55.87	—12.35
82	δ Canori.....	4.3	0.38	3	8 37 0.68	+3.419	0.38	3	+18 38 54.63	—12.91
83	Δ ² Canori	5.8	0.26	1	8 39 31.91	+3.295	0.26	1	+12 36 13.64	—12.89
84	ε Hydræ.....	3.6	0.00	3	8 39 37.51	+3.183	0.00	6	+6 54 43.31	—12.89
85	α Canori.....	4.3	0.15	5	8 51 6.14	+3.289	0.15	5	+12 22 43.26	—13.64
86	κ Canori.....	5.0	0.03	2	9 0 26.10	+3.256	0.03	2	+11 12 35.43	—14.20
87	π ² Canori	5.6	0.18	2	9 7 46.48	+3.322	0.18	2	+15 29 59.08	—14.63
88	83 Canori	6.6	0.00	4	9 11 26.62	+3.359	0.00	8	+18 16 34.17	—15.01
89	α Hydræ	2.0	0.00	6	9 20 57.19	+2.949	0.00	11	—8 4 29.55	—15.36
90	λ Leonis.....	5.4	0.33	2	9 24 43.32	+3.224	0.33	2	+10 18 34.00	—15.61

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°o.	Annual Variation 1864°c.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°o.	Annual Variation 1864°o.
91	1 Sextantis	5·0	0·52	2	9 29 4·97	+ 3·173	0·52	2	+ 7 26 22·38	—15·89
92	o Leonis.....	3·8	0·31	6	9 33 56·66	+ 3·209	0·31	6	+10 30 18·28	—16·13
93	ε Leonis.....	3·1	0·00	1	9 38 10·89	+ 3·420	0·00	2	+24 23 41·07	—16·34
94	B.A.C. 3336	6·0	0·26	2	9 39 2·67	+ 3·171	0·26	2	+ 7 19 15·63	—16·38
95	π Leonis	5·0	0·00	1	9 53 4·76	+ 3·176	0·00	12	+ 8 41 27·31	—17·07
96	α Leonis.....	1·4	0·00	3	10 1 10·76	+ 3·202	0·00	10	+12 37 33·77	—17·40
97	γ ¹ Leonis	2·0	0·00	5	10 12 31·64	+ 3·319	0·00	5	+20 31 24·37	—18·02
98	43 Leonis	6·5	0·26	2	10 15 56·54	+ 3·144	0·26	2	+ 7 13 38·03	—18·11
99	45 Leonis	5·9	0·08	2	10 20 31·13	+ 3·175	0·06	3	+10 26 59·91	—18·18
100	ρ Leonis.....	4·0	0·00	1	10 25 42·06	+ 3·165	0·00	6	+10 0 1·85	—18·37
101	34 Sextantis	7·7	0·41	1	10 35 39·32	+ 3·099	0·41	2	+ 4 17 16·65	—18·68
102	l Leonis.....	5·3	0·00	1	10 42 9·59	+ 3·159	0·00	6	+11 15 32·40	—18·93
103	55 Leonis	6·0	0·19	1	10 48 45·73	+ 3·088	0·19	1	+ 1 27 23·64	—19·09
104	d Leonis.....	5·0	0·38	4	10 53 35·32	+ 3·099	0·38	4	+ 4 20 31·19	—19·23
105	e Leonis.....	5·1	0·19	1	10 53 44·97	+ 3·112	0·19	1	+ 6 49 34·99	—19·22
106	χ Leonis.....	4·7	0·00	2	10 58 3·16	+ 3·097	0·00	4	+ 8 3 56·02	—19·35
107	ρ ² Leonis	5·5	0·27	3	11 6 50·93	+ 3·073	0·27	3	+ 0 39 52·96	—19·51
108	i Leonis.....	2·8	0·00	2	11 6 55·50	+ 3·202	0·00	1	+21 15 47·28	—19·63
109	φ Leonis.....	4·5	0·27	4	11 9 47·91	+ 3·049	0·22	5	— 2 54 49·48	—19·60
110	δ Crateris	3·9	0·00	3	11 12 35·53	+ 2·993	0·00	7	—14 2 52·63	—19·42
111	79 Leonis	5·5	0·27	2	11 17 6·71	+ 3·078	0·27	2	+ 2 8 55·35	—19·70
112	v Leonis.....	4·5	...	...	11 30 2	+ 3·070	0·00	10	— 0 4 42·38	—19·84
113	β Leonis.....	2·2	...	...	11 42 10	+ 3·065	0·00	1	+15 19 38·51	—20·09
114	β Virginis	3·7	0·27	7	11 43 39·84	+ 3·124	0·27	7	+ 2 31 32·57	—20·27
115	10 Virginis	6·1	0·44	3	12 2 46·37	+ 3·072	0·44	3	+ 2 39 23·61	—20·24
116	ε Corvi	3·1	...	...	12 3 11	+ 3·074	0·00	2	—21 52 6·16	—20·03
117	η Virginis	4·1	...	...	12 13 0	+ 3·066	0·00	5	+ 0 5 1·68	—20·05
118	q Virginis ..	5·7	0·35	2	12 26 48·90	+ 3·088	0·35	2	— 8 42 23·44	—19·91
119	f Virginis	5·9	0·12	2	12 29 50·35	+ 3·084	0·12	2	— 5 5 13·57	—19·91
120	Lacaille 5235....	6·6	0·47	1	12 30 58·15	+13·802	0·49	5	—89 3 26·41	—19·88

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
121	Lacaille 5235 S.P.	...	0.47	2	12 30 58.97	+13.802	0.47	2	89 3 28.63	-19.88
122	χ Virginis	4.7	0.35	2	12 32 16.87	+ 3.089	0.35	2	7 15 7.09	-19.88
123	γ ¹ Virginis.....	3.0	...	...	12 34 49	+ 3.036	0.00	2	0 42 28.82	-19.81
124	28 Virginis	7.0	0.12	2	12 34 58.99	+ 3.095	0.12	2	6 45 27.03	-19.85
125	ψ Virginis.....	5.0	0.50	2	12 47 20.10	+ 3.111	0.50	2	8 48 16.28	-19.65
126	48 Virginis	6.6	0.42	1	12 56 57.28	+ 3.083	0.42	1	2 56 9.38	-19.46
127	θ Virginis.....	4.4	...	...	13 2 58	+ 3.098	0.00	9	4 49 1.04	-19.34
128	66 Virginis	5.8	...	...	13 17 32	+ 3.115	0.08	1	4 27 25.70	-18.94
129	α Virginis.....	1.2	...	...	13 18 5	+ 3.150	0.00	15	10 27 19.11	-18.92
130	Γ Virginis.....	4.9	0.35	2	13 24 56.98	+ 3.111	0.35	2	5 33 26.31	-18.73
131	h Virginis	5.5	0.39	2	13 25 51.84	+ 3.149	0.39	2	9 28 4.53	-18.69
132	ζ Virginis.....	3.5	0.00	1	13 27 49.01	+ 3.051	0.00	10	0 5 45.33	-18.55
133	83 Virginis	5.8	0.42	2	13 37 13.19	+ 3.224	0.42	2	15 29 54.98	-18.29
134	86 Virginis	6.0	0.32	3	13 38 45.00	+ 3.185	0.32	3	11 44 54.49	-18.21
135	89 Virginis	5.2	0.42	2	13 42 32.51	+ 3.245	0.42	2	17 27 35.73	-18.12
136	τ Virginis	4.4	...	...	13 54 47	+ 3.047	0.00	2	2 11 59.23	-17.63
137	94 Virginis	6.8	0.20	2	13 59 9.13	+ 3.165	0.20	2	8 14 42.95	-17.40
138	ε Virginis.....	4.3	0.46	2	14 5 41.87	+ 3.190	0.47	3	9 38 35.95	-16.98
139	α Boötis.....	0.0	...	...	14 9 30	+ 2.733	0.00	2	19 53 12.28	-18.92
140	λ Virginis.....	4.6	0.22	5	14 11 48.65	+ 3.234	0.15	9	12 44 50.77	-16.80
141	2 Libræ	6.3	0.28	2	14 17 10.19	+ 3.216	0.28	2	11 5 43.77	-16.68
142	z Octantis.....	6.5	0.55	3	14 25 30.71	+21.667	0.55	4	87 35 13.61	-16.27
143	z Octantis S.P....	...	0.55	3	31.38	...	0.56	3	17.07	...
144	α ² Centauri	1	...	...	14 30 28	+ 4.022	0.90	9	60 16 36.56	-15.10
145	α ² Centauri ...R.	...	...	...	...	...	0.90	9	37.66	...
146	α ¹ Centauri	3½	...	...	14 30 28	+ 4.022	0.91	6	60 16 28.72	-15.10
147	α ¹ Centauri ...R.	...	...	...	...	...	0.91	6	28.85	...
148	5 Libræ	6.6	0.32	2	14 38 31.45	+ 3.296	0.32	2	14 53 15.50	-15.44
149	ε ² Boötis	3.0	0.00	1	14 39 5.51	+ 2.620	0.00	1	27 38 43.40	-15.42
150	B.A.C. 4883	5.5	0.58	1	14 41 37.97	+ 9.636	0.58	1	82 29 24.56	-15.28

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
151	α Libræ	3·0	0·00	3	14 43 24·83	+ 3·305	0·00	15	—15 28 42·20	—15·24
152	γ Libræ	4·9	0·33	3	15 4 31·90	+ 3·405	0·33	3	—19 16 41·31	—13·94
153	β Libræ	2·7	0·00	3	15 9 44·72	+ 3·218	0·00	11	— 8 52 55·78	—13·58
154	ρ Octantis	5·7	0·63	1	15 12 39·87	+12·613	0·63	1	—84 0 18·42	—13·36
155	ρ Octantis S.P. ....	...	0·62	1	40·67	...	0·62	1	19·64	...
156	ζ Libræ	6·2	0·36	2	15 20 38·94	+ 3·376	0·36	2	—16 14 35·06	—12·55
157	γ Libræ	4·0	0·43	1	15 27 58·53	+ 3·345	0·43	1	—14 20 8·31	—12·33
158	α Coronæ Bor. ...	2·4	...	...	15 28 58	+ 2·538	0·00	1	+27 10 13·21	—12·38
159	α Serpentis	2·7	...	...	15 37 37	+ 2·949	0·00	1	+ 6 51 10·89	—11·62
160	θ Libræ	4·3	0·58	1	15 46 8·68	+ 3·405	0·58	1	—16 19 48·37	—10·93
161	δ Scorpii	2·5	0·54	4	15 52 21·32	+ 3·534	0·54	4	—22 14 3·48	—10·63
162	β Scorpii	2½	0·00	4	15 57 35·47	+ 3·475	0·00	6	—19 25 57·92	—10·24
163	ν Scorpii	4½	0·55	2	16 4 9·24	+ 3·474	0·43	1	—19 6 23·71	— 9·72
164	δ Ophiuchi	2·8	0·00	6	16 7 16·45	+ 3·136	0·00	5	— 3 20 38·24	— 9·61
165	B.A.C. 5412	6·0	0·63	1	16 11 22·47	+20·472	0·63	1	—86 5 39·09	— 9·23
166	B.A.C. 5412 S.P. ....	...	0·63	3	22·43	...	0·63	3	39·56	...
167	γ Apodis	3·9	0·66	4	16 12 51·17	+ 8·937	0·66	2	—78 35 8·38	— 9·23
168	γ Apodis S.P. ....	...	0·66	4	51·05	...	0·66	1	9·95	...
169	σ Scorpii	3·0	0·43	1	16 12 59·26	+ 3·633	0·43	1	—25 15 54·17	— 9·04
170	ψ Ophiuchi	4·6	0·58	2	16 16 12·45	+ 3·500	0·58	2	—19 43 5·21	— 8·84
171	α Scorpii	1·1	0·00	8	16 21 8·03	+ 3·665	0·00	12	—26 7 44·57	— 8·42
172	ω Ophiuchi	4·7	0·46	3	16 24 8·31	+ 3·546	0·46	3	—21 10 27·35	— 8·10
173	π Ophiuchi	3·4	...	...	16 51 17	+ 2·835	0·00	2	+ 9 35 15·14	— 5·91
174	η Ophiuchi	2·6	0·51	5	17 2 38·28	+ 3·433	0·44	4	—15 33 14·97	— 4·88
175	α Herculis	Var.	...	...	17 8 29	+ 2·732	0·00	1	+14 32 49·10	— 4·44
176	ν Serpentis	4·4	0·51	3	17 13 14·24	+ 3·368	0·51	3	—12 42 23·68	— 4·04
177	θ Ophiuchi	3·4	...	...	17 13 43	+ 3·677	0·00	3	—24 51 39·71	— 4·06
178	ξ Serpentis	3·7	0·60	4	17 29 51·44	+ 3·430	0·54	3	—15 18 37·58	— 2·68
179	\circ Serpentis	4·4	0·59	2	17 33 49·80	+ 3·368	0·59	2	—12 47 59·26	— 2·32
180	B.A.C. 5936	5·2	0·70	2	17 35 18·61	+35·456	0·70	2	—87 39 2·05	— 2·21

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°.	Annual Variation 1864°.
181	B.A.C. 5936 S.P. ...	...	0.70	1	17 35 18.53	...	0.70	1	—87 30 3.93	...
182	4 Sagittarii	4.6	0.54	3	17 51 32.98	+ 3.660	0.53	4	—23 48 0.52	— 0.80
183	ϵ Octantis.....	5.5	0.62	6	17 57 13.04	+ 109 673	0.00	5	—89 16 43.62	— 0.27
184	ϵ Octantis S.P. ...	...	0.55	3	14.09	...	0.00	16	45.65	...
185	μ Sagittarii	4.1	...	18	5 41	+ 3.586	0.00	9	—21 5 25.76	+ 0.49
186	21 Sagittarii	4.9	0.74	1	18 17 18.50	+ 3.572	0.74	1	—20 36 36.86	+ 1.51
187	λ Sagittarii	3.1	0.44	1	18 19 38.51	+ 3.702	0.44	1	—25 29 33.66	+ 1.51
188	24 Sagittarii.....	5.9	0.74	1	18 25 38.63	+ 3.665	0.74	1	—24 7 45.00	+ 2.24
189	α Lyre	0.2	...	18	32 22	+ 2.030	0.00	2	+38 39 35.87	+ 3.12
190	β Lyre	Var.	0.00	1	18 45 5.81	+ 2.213	0.00	2	+33 12 29.76	+ 3.94
191	ξ Sagittarii	3.5	0.67	1	18 49 40.55	+ 3.580	0.67	2	—21 16 50.84	+ 4.30
192	σ Sagittarii	3.9	0.67	1	18 56 35.55	+ 3.597	0.67	2	—21 56 8.33	+ 4.84
193	ζ Aquilæ	3.1	0.00	1	18 59 12.50	+ 2.755	0.00	2	+13 39 56.74	+ 5.03
194	π Sagittarii	3.1	0.41	3	19 1 43.98	+ 3.571	0.38	4	—21 14 4.81	+ 5.30
195	δ Sagittarii	4.9	0.51	1	19 9 44.19	+ 3.514	0.51	1	—19 11 22.07	+ 6.00
196	ω Aquilæ	5.1	0.00	1	19 11 28.81	+ 2.815	0.00	1	+11 21 17.63	+ 6.18
197	ρ Sagittarii	3.9	0.44	1	19 13 50.45	+ 3.483	0.37	2	—18 5 52.60	+ 6.37
198	ν Sagittarii	4.7	0.74	1	19 13 59.76	+ 3.439	0.74	2	—16 12 18.85	+ 6.35
199	δ Aquilæ	3.5	0.00	1	19 18 41.63	+ 3.025	0.00	1	+ 2 50 55.88	+ 6.84
200	κ Sagittarii	4.6	0.00	2	19 28 29.28	+ 3.656	0.00	7	—25 10 42.64	+ 7.54
201	ϵ Sagittarii	5.0	0.71	4	19 34 47.72	+ 3.436	0.71	4	—16 26 14.04	+ 8.05
202	γ Aquilæ	2.8	0.00	2	19 39 50.52	+ 2.852	0.00	1	+10 17 14.61	+ 8.47
203	α Aquilæ	1.0	0.00	5	19 44 11.84	+ 2.927	0.00	16	+ 8 30 52.19	+ 9.19
204	ϵ Pavonis	4.0	0.28	4	19 44 54.87	+ 7.061	0.29	4	—73 15 37.59	+ 8.73
205	ϵ Pavonis S.P. ...	...	0.29	5	54.90	...	0.29	7	40.21	...
206	β Aquilæ	4.0	0.00	1	19 48 40.89	+ 2.946	0.00	2	+ 6 4 19.78	+ 8.69
207	η Sagittarii	5.0	0.29	1	19 50 17.67	+ 3.477	0.29	1	—15 50 48.34	+ 9.20
208	63 Sagittarii.....	5.9	0.29	1	19 54 24.89	+ 3.365	0.29	1	—14 0 29.42	+ 9.62
209	B.A.C. 6859	6.3	0.31	2	19 55 39.77	+ 13.777	0.31	2	—83 42 57.91	+ 9.70
210	B.A.C. 6859 S.P. ...	...	0.30	3	39.85	...	0.30	3	59.62	...

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°.	Annual Variation 1864°.
					^h ^m ^s	^s			[°] ['] ["]	["]
211	B.A.C. 6900	8	0·31	2	20 0 44·06	+ 9·634	0·31	2	-80 0 16·86	+10·07
212	B.A.C. 6900 S.P. ...	...	0·30	3	44·01	...	0·30	3	19·68	...
213	α^1 Capricorni	4·5	0·00	1	20 10 9·93	+ 3·330	0·00	3	-12 55 20·10	+10·81
214	α^2 Capricorni	3·8	0·00	3	20 10 33·80	+ 3·334	0·00	7	-12 57 37·82	+10·83
215	ρ Capricorni	5·0	0·00	1	20 21 9·48	+ 3·429	0·00	3	-18 15 26·72	+11·58
216	ϵ Aquarii	3·8	0·79	5	20 40 22·01	+ 3·252	0·79	5	- 9 59 14·41	+12·89
217	μ Aquarii	4·8	0·75	2	20 45 22·26	+ 3·241	0·75	2	- 9 29 14·77	+13·21
218	B Octantis	6·6	0·34	4	20 46 49·05	+110·979	0·34	5	-89 27 46·02	+13·21
219	B Octantis S.P. ...	...	0·34	5	45·64	...	0·34	5	48·20	...
220	ν Aquarii	4·6	0·60	1	21 2 14·34	+ 3·274	0·60	1	-11 54 59·12	+14·31
221	β Aquarii	3·1	0·00	3	21 24 27·07	+ 3·162	0·00	12	- 6 9 47·24	+15·61
222	ξ Aquarii	4·8	0·78	2	21 30 33·91	+ 3·199	0·78	2	- 8 27 27·40	+15·92
223	ϵ Pegasi	2·4	0·00	2	21 37 33·41	+ 2·946	...	...	+ 9 15	+16·31
224	λ Capricorni	5·4	0·52	1	21 39 16·08	+ 3·237	0·52	1	-11 59 10·53	+16·38
225	16 Pegasi	5·0	0·00	1	21 46 55·21	+ 2·725	0·00	1	+25 17 29·99	+16·76
226	α Aquarii	3·2	0·00	3	21 58 50·95	+ 3·083	0·00	5	- 0 58 26·83	+17·32
227	α Gruis	1·9	...	...	21 59 43	+ 3·817	0·00	13	-47 36 46·33	+17·17
228	θ Aquarii	4·3	0·00	2	22 9 42·56	+ 3·170	0·00	10	- 8 27 14·05	+17·76
229	γ Aquarii	4·1	0·90	2	22 14 41·03	+ 3·100	0·90	1	- 2 3 58·48	+17·99
230	ζ Aquarii (as one mass)	3·8	0·52	1	22 21 52·92	+ 3·090	0·52	1	- 0 42 34·08	+18·29
231	σ Aquarii	4·8	0·60	1	22 23 29·98	+ 3·181	0·60	1	-11 22 3·42	+18·27
232	η Aquarii	4·2	0·00	3	22 28 25·21	+ 3·084	0·00	12	- 0 48 43·06	+18·42
233	ζ Pegasi	3·6	0·00	1	22 34 43·84	+ 2·990	...	...	+10 8	+18·66
234	α Piscis Australis	1·3	0·00	9	22 50 11·04	+ 3·330	0·00	43	-30 20 11·27	+18·97
235	β Piscium	4·6	0·45	1	22 57 0·65	+ 3·052	0·45	1	+ 3 5 39·97	+19·29
236	α Pegasi	2·6	0·00	10	22 58 2·28	+ 2·983	0·00	15	+14 28 46·84	+19·30
237	τ Octantis	5·6	0·43	7	23 6 10·25	+13·212	0·43	6	-88 13 16·99	+19·52
238	τ Octantis S.P. ....	...	0·42	7	8·99	...	0·43	9	19·20	...
239	ϕ Aquarii	4·2	0·68	1	23 7 19·72	+ 3·109	0·68	1	- 6 46 33·59	+19·34
240	γ Piscium	3·8	0·00	7	23 10 10·12	+ 3·108	0·00	6	+ 2 32 43·00	+19·60

No.	Star.	Magnitude.	Fraction of Year.	No. of Obs.	Mean R.A. 1865°.	Annual Variation 1864°.	Fraction of Year.	No. of Obs.	Mean Dec. 1865°.	Annual Variation 1864°.
					h m s	s			° ' "	"
241	κ Piscium	5.0	0.00	9	23 20 0.78	+ 3.074	0.00	9	+ 0 31 2.20	+19.65
242	9 Piscium	7.2	0.68	1	23 20 19.95	+ 3.072	...	...	+ 0 23	+19.73
243	ι Piscium	4.3	0.00	9	23 33 0.50	+ 3.082	0.00	9	+ 4 53 42.25	+19.47
244	19 Piscium	5.2	0.68	2	23 39 29.69	+ 3.061	0.68	2	+ 2 44 18.07	+19.95
245	δ Sculptoris	4.6	0.00	7	23 41 53.33	+ 3.134	0.00	5	-28 52 35.70	+19.90
246	ω Piscium.....	4.2	0.00	5	23 52 22.88	+ 3.076	0.00	5	+ 6 6 58.88	+19.94
247	ϵ^2 Piscium.....	6.0	0.60	1	23 55 35.93	+ 3.063	0.60	1	+ 7 44 8.48	+20.02

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

SEMIDIAMETERS

AND

RIGHT ASCENSIONS AND DECLINATIONS

OF THE

SUN, MOON & PLANETS,

DEDUCED FROM THE OBSERVATIONS

AND

COMPARED WITH THE NAUTICAL ALMANAC,

1861—1865.

Semidiameters of the Sun.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1861.		m s	s	s	' "	"	"
Jan. 3	G	1 10.89	10.96	— 0.07	16 19.46	18.20	+ 1.26
4	G	1 10.80	10.91	— 0.11	16 18.23	18.20	+ 0.03
31	G	1 8.26	8.34	— 0.08	...	...	...
Feb. 6	G	1 7.62	7.64	— 0.02	...	...	...
Mar. 7	G	1 4.90	5.00	— 0.10	...	...	...
8	G	1 4.94	4.94	0.00	16 9.34	8.30	+ 1.04
9	G	1 4.75	4.89	— 0.14	16 8.19	8.00	+ 0.19
11	G	1 4.64	4.79	— 0.15	16 7.07	7.50	— 0.43
12	G	1 4.64	4.74	— 0.10	16 7.26	7.20	+ 0.06
13	G	1 4.74	4.70	+ 0.04	16 7.71	6.90	+ 0.81
14	G	1 4.54	4.66	— 0.12	16 7.32	6.70	+ 0.62
18	G	1 4.47	4.54	— 0.07	16 6.57	5.60	+ 0.97
19	G	1 4.53	4.52	+ 0.01	16 5.23	5.30	— 0.07
20	G	1 4.49	4.50	— 0.01	16 6.75	5.10	+ 1.65
21	G	1 4.47	4.49	— 0.02	16 7.68	4.80	+ 2.88
22	G	1 4.57	4.47	+ 0.10	16 4.30	4.60	— 0.30
23	G	1 4.25	4.46	— 0.21	16 4.41	4.30	+ 0.11
27	G	1 4.35	4.44	— 0.09	...	...	...
Apr. 27	G	1 5.65	5.75	— 0.10	...	...	...
May 1	G	1 5.87	6.06	— 0.19	...	...	...
13	G	1 6.93	7.03	— 0.10	...	...	...
21	G	1 7.62	7.68	— 0.06	...	...	...
June 1	G	1 8.30	8.41	— 0.11	...	...	...
Aug 24	C	1 4.82	4.82	0.00	...	...	...
Sept. 2	W	1 4.09	4.35	— 0.26	...	...	...
3	G	1 4.12	4.31	— 0.19	...	...	...
4	C	1 4.29	4.28	+ 0.01	...	...	...

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1862—cont.							
Dec. 13	G	1 11'06	11'09	— 0'03	16 17'04	17'30	— 0'26
15	G	1 11'17	11'16	+ 0'01	16 17'99	17'50	+ 0'49
16	G	1 11'31	11'19	+ 0'12	16 19'37	17'50	+ 1'87
17	W	...	...	...	16 17'83	17'60	+ 0'23
18	G	1 11'24	11'24	0'00	16 18'69	17'70	+ 0'99
19	G	1 11'27	11'26	+ 0'01	16 19'41	17'80	+ 1'61
20	G	1 11'36	11'27	+ 0'09	16 18'95	17'80	+ 1'15
22	G	1 11'33	11'29	+ 0'04	16 19'09	17'90	+ 1'19
23	G	1 11'37	11'29	+ 0'08	16 14'07	18'00	— 3'93
24	G	1 11'29	11'28	+ 0'01	16 18'24	18'00	+ 0'24
1863.							
Apr. 4	G	1 4'47	4'55	— 0'08	...	...	...
May 18	G	1 7'26	7'40	— 0'14	...	...	...
30	G	1 8'20	8'27	— 0'07	...	...	...
June 1	G	1 8'27	8'39	— 0'12	...	...	...
3	G	1 8'44	8'50	— 0'06	...	...	...
8	G	1 8'62	8'72	— 0'10	15 47'65	47'30	+ 0'35
11	G	1 8'76	8'82	— 0'06	15 46'22	47'00	— 0'78
12	G	1 8'81	8'85	— 0'04	15 46'15	46'90	— 0'75
13	G	1 8'83	8'88	— 0'05	15 47'39	46'80	+ 0'59
17	G	1 8'84	8'95	— 0'11	15 46'41	46'50	— 0'09
19	G	1 8'91	8'96	— 0'05	15 47'51	46'40	+ 1'11
20	G	1 8'88	8'96	— 0'08	15 47'33	46'30	+ 1'03
22	G	1 8'91	8'96	— 0'05	15 47'04	46'20	+ 0'84
23	G	1 8'92	8'96	— 0'04	15 46'52	46'20	+ 0'32
24	G	1 8'89	8'94	— 0'05	15 46'03	46'10	— 0'07
29	G	1 8'80	8'85	— 0'05	15 45'81	46'00	— 0'19
30	G	1 8'72	8'82	— 0'10	15 46'12	46'00	+ 0'12
July 1	G	1 8'75	8'78	— 0'03	15 46'95	46'00	+ 0'95
2	G	1 8'71	8'75	— 0'04	15 46'23	46'00	+ 0'23
3	G	1 8'66	8'71	— 0'05	15 46'39	46'00	+ 0'39

December 20. Limbs very unsteady.
June 17. Bad definition; flickering.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.	
		Observation.	N.A.		Observation.	N.A.		
1863—cont.								
Aug.	10	G	1 5'77	5'89	— 0'12	...	...	...
	13	G	1 5'62	5'64	— 0'02	...	...	...
	14	G	1 5'52	5'56	— 0'04	...	...	...
Sept.	8	G	1 4'19	4'16	+ 0'03	15 56'18	55'19	+ 0'99
	9	G	1 4'15	4'14	+ 0'01	15 56'74	55'39	+ 1'35
	10	G	1 4'09	4'12	— 0'03	15 55'60	55'69	— 0'09
	12	G	1 4'02	4'08	— 0'06	15 57'16	56'19	+ 0'97
	15	G	1 4'10	4'05	+ 0'05	15 57'23	56'89	+ 0'34
	16	G	1 4'02	4'05	— 0'03	15 56'64	57'19	— 0'55
	17	G	1 4'02	4'05	— 0'03	15 57'75	57'49	+ 0'26
	18	G	1 4'00	4'05	— 0'05	15 58'45	57'69	+ 0'76
	19	G	1 4'04	4'05	— 0'01	15 58'86	57'98	+ 0'88
	21	G	1 4'02	4'07	— 0'05	15 58'56	58'59	— 0'03
	22	G	1 4'07	4'08	— 0'01	15 59'74	58'79	+ 0'95
	23	G	1 4'01	4'10	— 0'09	15 58'99	59'08	— 0'09
	24	G	1 4'07	4'12	— 0'05	15 58'86	59'38	— 0'52
	25	G	1 4'14	4'14	0'00	15 61'05	59'69	+ 1'36
	26	G	1 4'15	4'17	— 0'02	15 59'91	59'89	+ 0'02
Oct.	16	G	1 5'20	5'30	— 0'10	...	...	...
	30	G	1 6'64	6'69	— 0'05	16 10'21	9'18	+ 1'03
	31	G	1 6'69	6'81	— 0'12	16 9'11	9'39	— 0'28
Nov.	6	G	1 7'40	7'50	— 0'10	16 11'83	10'90	+ 0'93
1864.								
Mar.	8	G	1 4'91	4'93	— 0'02	16 9'13	8'22	+ 0'91
	9	G	1 4'79	4'88	— 0'09	16 7'72	7'92	— 0'20
	10	G	1 4'82	4'83	— 0'01	16 9'10	7'71	+ 1'39
	11	G	1 4'87	4'78	+ 0'09	16 9'53	7'42	+ 2'11
	12	G	1 4'82	4'74	+ 0'08	16 8'82	7'21	+ 1'61
	14	G	1 4'57	4'66	— 0'09	16 7'68	6'61	+ 1'07
	15	G	...	...	...	16 6'23	6'40	— 0'17
	16	G	...	...	...	16 6'54	6'10	+ 0'44

October 30. Bad definition.
 March 8. Very bad definition.
 March 10. Very unsteady.

October 31. Very faint; through cloud.
 March 9. Bad definition.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1864 — cont.		m	s				
Mar. 17	G	1 4'57	4'56	+ 0'01	16 5'92	5'80	+ 0'12
18	G	1 4'49	4'54	— 0'05	16 5'14	5'60	— 0'46
19	G	1 4'42	4'52	— 0'10	16 5'12	5'30	— 0'18
21	G	1 4'44	4'48	— 0'04	16 5'00	4'80	+ 0'20
22	G	1 4'49	4'47	+ 0'02	16 4'70	4'50	+ 0'20
23	G	1 4'41	4'46	— 0'05	16 4'62	4'20	+ 0'42
29	G	1 4'44	4'46	— 0'02	16 1'66	2'50	— 0'84
30	G	1 4'48	4'47	+ 0'01	16 2'76	2'30	+ 0'46
June 6	G	1 8'62	8'67	— 0'05	15 46'69	47'40	— 0'71
8	G	1 8'67	8'75	— 0'08	15 47'67	47'20	+ 0'47
9	G	1 8'70	8'78	— 0'08	15 46'68	47'10	— 0'42
10	G	1 8'73	8'81	— 0'08	15 47'71	47'00	+ 0'71
16	G	1 8'88	8'95	— 0'07	15 45'74	46'50	— 0'76
17	G	1 8'83	8'96	— 0'13	15 46'55	46'50	+ 0'05
18	G	1 8'86	8'96	— 0'10	15 46'32	46'40	— 0'08
20	G	1 8'92	8'97	— 0'05	15 46'79	46'30	+ 0'49
21	G	1 9'04	8'96	+ 0'08	15 46'85	46'20	+ 0'65
23	G	1 8'85	8'95	— 0'10	15 45'91	46'10	— 0'19
24	G	1 9'11	8'93	+ 0'18	...	...	...
29	G	...	...	...	15 44'80	45'90	— 1'10
Sept. 8	CF	1 4'07	4'15	— 0'08	...	...	...
9	G	1 4'24	4'12	+ 0'12	15 58'10	55'60	+ 2'50
13	G	1 4'01	4'07	— 0'06	15 55'81	56'70	— 0'89
14	G	1 3'95	4'06	— 0'11	15 57'35	56'90	+ 0'45
15	G	1 3'99	4'05	— 0'06	15 56'81	57'20	— 0'39
16	G	1 4'03	4'05	— 0'02	15 56'74	57'50	— 0'76
17	G	1 3'99	4'05	— 0'06	15 57'80	57'70	+ 0'10
19	G	1 4'00	4'06	— 0'06	15 55'67	58'20	+ 1'47
22	G	1 4'02	4'10	— 0'08	15 57'65	59'00	— 1'35
24	G	1 4'13	4'14	— 0'01	15 59'93	59'60	+ 0'33
26	G	1 4'14	4'19	— 0'05	15 59'68	60'10	— 0'42
27	G	1 4'14	4'22	— 0'08	16 0'25	0'40	— 0'15
28	G	1 4'26	4'25	+ 0'01	...	...	...
Nov. 15	G	1 8'54	8'66	— 0'12	...	...	...

March 18. Barely visible; through cloud

March 29. Bad definition.

September 9, 15, 16. Very bad definition.

September 17. Unsteady; observed through cloud.

September 24. Bad definition; very unsteady.

March 23. Very bad definition.

March 30. Very bad definition.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1865— <i>cont.</i>		m	s	s	"	"	"
June 7	G	1 8.62	8.70	— 0.08	15 47.06	47.30	— 0.24
8	G	1 8.64	8.74	— 0.10	15 46.91	47.20	— 0.29
9	G	1 8.74	8.78	— 0.04	15 47.09	47.10	— 0.01
10	G	1 8.74	8.81	— 0.07	15 46.51	47.00	— 0.49
12	G	1 8.78	8.86	— 0.08	15 46.46	46.80	— 0.34
13	G	1 8.84	8.89	— 0.05	15 46.84	46.70	+ 0.14
14	G	1 8.82	8.91	— 0.09	15 46.86	46.60	+ 0.26
15	G	...	...	...	15 46.39	46.60	— 0.21
17	CF	1 8.93	8.95	— 0.02	15 45.61	46.50	— 0.89
21	G	1 8.92	8.96	— 0.04	15 45.92	46.30	— 0.38
22	G	1 8.92	8.96	— 0.04	15 46.78	46.20	+ 0.58
24	G	1 8.95	8.94	+ 0.01	15 46.42	46.10	+ 0.32
26	G	1 8.83	8.90	— 0.07	15 45.60	46.10	— 0.50
28	G	1 8.77	8.86	— 0.09	15 44.74	46.00	— 1.26
29	G	1 8.76	8.83	— 0.07	15 45.93	46.00	— 0.07
30	G	1 8.73	8.80	— 0.07	15 46.06	46.00	+ 0.06
July 1	G	1 8.69	8.76	— 0.07	15 46.04	45.90	+ 0.14
3	G	1 8.64	8.69	— 0.05	15 46.03	45.90	+ 0.13
Aug. 7	G	1 5.99	6.11	— 0.12	...	...	...
28	G	1 4.44	4.59	— 0.15	...	...	...
29	G	1 4.44	4.54	— 0.10	...	...	...
Sept. 7	G	1 4.07	4.18	— 0.11	15 54.65	55.09	— 0.44
8	G	1 4.13	4.15	— 0.02	15 55.97	55.39	+ 0.58
9	G	1 4.18	4.13	+ 0.05	15 57.56	55.59	+ 1.97
11	G	1 4.04	4.09	— 0.05	15 55.80	56.09	— 0.29
12	G	1 4.06	4.08	— 0.02	15 56.25	56.39	— 0.14
13	G	1 3.99	4.07	— 0.08	15 56.81	56.59	+ 0.22
14	G	1 4.01	4.06	— 0.05	15 56.43	56.89	— 0.46
16	G	1 3.95	4.05	— 0.10	15 56.54	57.49	— 0.95
18	G	1 4.01	4.05	— 0.04	15 58.46	57.99	+ 0.47
20	G	1 4.03	4.06	— 0.03	15 59.32	58.49	+ 0.83
21	G	1 4.15	4.08	+ 0.07	15 59.62	58.79	+ 0.83
22	G	1 4.14	4.09	+ 0.05	15 59.66	59.09	+ 0.57
23	G	1 4.13	4.11	+ 0.02	15 60.56	59.29	+ 1.27
27	G	...	...	...	15 59.34	60.39	— 1.05
28	G	1 4.22	4.24	— 0.02	16 0.60	0.69	— 0.09
29	G	1 4.27	4.28	— 0.01	16 1.24	0.89	+ 0.35

June 12. Hazy; tremulous.

June 28. Limbs boiling.

September 9. Very bad definition; very diffused and tremulous.

September 14. Observed through fog.

June 15. Dense fog; barely visible.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1865— <i>cont.</i>		m s	s	s	' "	"	"
Oct. 2	G	1 4' 37	4' 41	— 0' 04	16 1' 85	1' 69	+ 0' 16
30	G	1 6' 67	6' 75	— 0' 08	...	...	...
Dec. 9	G	1 10' 89	10' 90	— 0' 01	16 18' 30	16' 90	+ 1' 40
11	G	1 10' 96	11' 01	— 0' 05	16 16' 81	17' 10	— 0' 29
12	G	1 11' 23	11' 06	+ 0' 17	16 18' 58	17' 29	+ 1' 29
15	G	1 11' 19	11' 17	+ 0' 02	16 17' 32	17' 60	— 0' 28
16	G	1 11' 19	11' 20	— 0' 01	16 18' 29	17' 60	+ 0' 69
18	G	1 11' 34	11' 25	+ 0' 09	16 19' 46	17' 80	+ 1' 66
19	G	1 11' 41	11' 26	+ 0' 15	16 19' 22	17' 90	+ 1' 32
20	G	1 11' 30	11' 27	+ 0' 03	16 18' 52	17' 90	+ 0' 62
21	G	1 11' 35	11' 28	+ 0' 07	16 18' 62	18' 00	+ 0' 62
22	G	1 11' 39	11' 29	+ 0' 10	16 18' 65	18' 00	+ 0' 65
23	G	1 11' 30	11' 29	+ 0' 01	16 17' 73	18' 10	— 0' 37
27	G	...	...	...	16 18' 21	18' 10	+ 0' 11
29	G	1 11' 22	11' 18	+ 0' 04	16 18' 46	18' 20	+ 0' 26
30	G	1 11' 27	11' 15	+ 0' 12	16 19' 23	18' 20	+ 1' 03

Semidiameters of the Moon.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1863.		m s	s	s	' "	"	"
Jan. 4	G	1 5' 24	5' 31	— 0' 07	...	...	..
1865.							
Feb. 10	G	1 2' 26	2' 14	+ 0' 12	...	...	...

Semidiameter of Mercury.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1862.							
July 21	G	...	...	...	4' 41	4' 00	+ 0' 41

THE SUN :—December 18, 22. Diffused ; very tremulous.
 December 27. Barely visible ; through cloud.

Semidiameters of Venus.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1863. Feb. 18	CF	...	...	...	4'90	5'10	- 0'20
1865. Nov. 15	G	...	...	...	8'04	5'50	+ 2'54
26	G	...	...	...	6'56	5'35	+ 1'21

Semidiameter of Mars.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1864. Dec. 23	W	0'62	0'53	+ 0'09	...	...	...

Semidiameters of Jupiter.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1862. Mar. 24	T	1'49	1'50	- 0'01	...	...	...
1863. Apr. 10	T	1'40	1'51	- 0'11	...	...	...
11	T	1'54	1'51	+ 0'03	...	...	...
21	T	1'46	1'51	- 0'05	...	...	...
23	T	1'47	1'50	- 0'03	...	...	...
24	T	1'42	1'50	- 0'08	...	...	...
May 23	T	1'34	1'44	- 0'10	...	...	...
24	T	1'32	1'44	- 0'12	...	...	...
25	T	1'34	1'44	- 0'10	...	...	...

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1863—cont.							
July 8	G	1' 28	1' 26	+ 0' 02	18' 96	17' 40	+ 1' 56
9	CF	1' 33	1' 26	+ 0' 07	20' 15	17' 35	+ 2' 80
10	IF	1' 17	1' 25	— 0' 08	20' 24	17' 30	+ 2' 94
13	CF	1' 30	1' 24	+ 0' 06	...	...	...
14	G	1' 27	1' 23	+ 0' 04	18' 22	17' 20	+ 1' 02
24	IF	1' 09	1' 20	— 0' 11	...	...	...
25	CF	1' 11	1' 20	— 0' 09	...	...	...
Aug. 1	IF	1' 07	1' 17	— 0' 10	16' 77	16' 30	+ 0' 47
4	G	1' 15	1' 17	— 0' 02	16' 41	16' 15	+ 0' 26
5	IF	1' 04	1' 16	— 0' 12	16' 04	16' 10	— 0' 06
11	G	1' 08	1' 15	— 0' 07	16' 37	15' 90	+ 0' 47
1864.							
Apr. 23	W	1' 72	1' 57	+ 0' 15	...	...	...
Aug. 8	G	1' 33	1' 33	0' 00	21' 47	17' 65	+ 3' 82
9	CF	1' 47	1' 33	+ 0' 14	20' 36	17' 60	+ 2' 76
10	G	1' 29	1' 33	— 0' 04	19' 23	17' 55	+ 1' 68

Semidiameters of Saturn.

Date.	Observer.	Semidiameter from		Correction to N.A.	Semidiameter from		Correction to N.A.
		Observation.	N.A.		Observation.	N.A.	
1862.							
Mar. 24	T	0' 72.	0' 64	+ 0' 08	...	...	...
1863.							
Apr. 20	T	0' 64	0' 62	+ 0' 02	...	...	...
21	T	0' 57	0' 62	— 0' 05	...	...	...
24	T	0' 66	0' 62	+ 0' 04	...	...	...
July 8	G	0' 57	0' 56	+ 0' 01	9' 04	7' 70	+ 1' 34
9	CF	0' 47	0' 56	— 0' 09	8' 40	7' 70	+ 0' 70
13	CF	0' 50	0' 55	— 0' 05	...	...	...
16	CF	0' 53	0' 55	— 0' 02	...	...	...
1865.							
Mar. 14	CF	0' 69	0' 62	+ 0' 07	...	...	...
15	G	0' 59	0' 62	— 0' 03	11' 05	8' 40	+ 2' 65
Apr. 11	CF	0' 59	0' 63	— 0' 04	...	...	...

at the Royal Observatory, Cape of Good Hope, 1861-5. 323

R.A. and Dec. of the Sun.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1861.										
	d	h	m	s		h	m	s		
Jan.	3	0	4	52.9	G	...	...	...	-22 48 37.47	38.72 + 1.25
	4	0	5	20.2	G	...	...	...	-22 42 22.92	25.10 + 2.18
Mar.	8	0	10	57.3	G	...	...	...	- 4 47 20.62	22.70 + 2.08
	9	0	10	42.1	G	...	...	...	- 4 23 53.88	56.17 + 2.29
	11	0	10	10.8	G	...	...	...	- 3 36 52.23	53.26 + 1.03
	12	0	9	54.6	G	...	...	...	- 3 13 16.87	17.87 + 1.00
	13	0	9	38.1	G	...	...	...	- 2 49 39.39	40.25 + 0.86
	14	0	9	21.3	G	...	...	...	- 2 26 0.52	1.02 + 0.50
	18	0	8	11.8	G	...	...	...	- 0 51 13.10	14.20 + 1.10
	19	0	7	54.0	G	...	...	...	- 0 27 29.09	31.98 + 2.89
	20	0	7	35.9	G	...	...	...	- 0 3 47.54	50.23 + 2.69
	21	0	7	17.7	G	...	...	...	+ 0 19 53.32	50.53 + 2.79
	22	0	6	59.4	G	...	...	...	+ 0 43 32.13	30.22 + 1.91
	23	0	6	41.0	G	...	...	...	+ 1 7 10.42	8.32 + 2.10
Sept.	5	23	58	12.4	C	11 0 14.28	14.13	+ 0.15	...	...
	8	23	57	11.6	G	...	...	...	+ 5 15 21.08	19.77 + 1.31
	9	23	56	51.1	G	...	...	...	+ 4 52 35.42	34.82 + 0.60
	10	23	56	30.4	G	...	...	...	+ 4 29 48.81	45.15 + 3.66
	13	23	55	27.4	G	...	...	...	+ 3 20 49.97	49.85 + 0.12
	17	23	54	2.7	G	...	...	...	+ 1 48 7.33	7.13 + 0.20
	19	23	53	20.3	G	...	...	...	+ 1 1 30.65	30.32 + 0.33
	20	23	52	59.3	G	...	...	...	+ 0 38 9.10	9.20 - 0.10
	22	23	52	17.5	G	...	...	...	- 0 8 37.14	37.11 - 0.03
	23	23	51	56.6	C	12 4 55.74	55.32	+ 0.42	...	...
	24	23	51	36.1	G	...	...	...	- 0 55 26.72	26.58 - 0.14
	26	23	50	55.6	G	...	...	...	- 1 42 16.84	16.23 - 0.61
	27	23	50	35.7	G	...	...	...	- 2 5 40.66	40.37 - 0.29
	29	23	49	56.6	G	...	...	...	- 2 52 25.71	25.64 - 0.07
Oct.	10	23	46	45.7	G	13 6 45.41	44.96	+ 0.45	...	...
	16	23	45	24.4	G	13 29 2.73	2.65	+ 0.08	...	...
September 23. Only second limb observed. A correction of - 0.10 has been applied to Tabular Semidiameter.										

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1861—cont.							
d h m s		h m s	s	s	° ' "	"	"
Dec. 16 23 56 26.4	G	...	...	...	—23 22 55.60	58.12	+ 2.52
18 23 57 25.6	G	...	...	...	—23 26 6.37	8.71	+ 2.34
19 23 57 55.5	G	...	...	...	—23 26 59.39	61.67	+ 2.28
20 23 58 25.3	G	...	...	...	—23 27 23.42	25.82	+ 2.40
22 23 59 25.3	G	...	...	...	—23 26 50.94	50.64	— 0.30
23 23 59 55.2	G	18 11 41.98	41.71	+ 0.27	—23 25 49.31	50.30	+ 0.99
26 0 0 55.0	G	...	...	...	—23 22 23.94	24.69	+ 0.75
27 0 1 24.7	G	...	...	...	—23 19 58.39	59.43	+ 1.04
28 0 1 54.3	G	...	...	...	—23 17 3.26	6.07	+ 2.81
30 0 2 52.9	G	...	...	...	—23 9 53.28	55.14	+ 1.86
31 0 3 21.9	G	...	...	...	—23 5 35.73	37.87	+ 2.14
1862.							
Jan. 4 0 5 14.3	G	...	...	...	—22 43 51.41	52.68	+ 1.27
Mar. 12 0 9 58.1	G	23 29 18.24	17.61	+ 0.63	...	...	...
13 0 9 41.6	G	23 32 57.90	57.56	+ 0.34	...	...	...
14 0 9 24.7	G	...	...	...	— 2 31 48.01	50.05	+ 2.04
15 0 9 7.6	G	...	...	...	— 2 8 7.35	10.82	+ 3.47
17 0 8 32.7	G	...	...	...	— 1 20 44.57	48.98	+ 4.41
19 0 7 57.0	W	23 54 52.40	52.04	+ 0.36	— 0 33 23.93	24.18	+ 0.25
20 0 7 39.0	W	...	...	...	— 0 9 42.58	43.45	+ 0.87
22 0 7 2.5	W	...	...	...	+ 0 37 40.21	38.17	+ 2.04
26 0 5 49.0	W	...	...	...	+ 2 12 6.89	3.21	+ 3.68
27 0 5 30.5	G	...	...	...	+ 2 35 37.87	33.57	+ 4.30
28 0 5 12.0	G	...	...	...	+ 2 59 4.08	0.86	+ 3.22
29 0 4 53.6	G	...	...	...	+ 3 22 27.85	24.56	+ 3.29
31 0 4 17.1	G	0 38 30.47	30.14	+ 0.33	+ 4 9 1.58	0.21	+ 1.37
June 9 23 59 3.4	G	...	...	...	+23 1 14.80	14.19	+ 0.61
12 23 59 39.5	G	5 25 37.05	36.87	+ 0.18	+23 13 19.23	18.16	+ 1.07
24 0 2 0.9	G	...	...	...	+23 25 53.10	53.54	— 0.40
Sept. 11 23 56 15.0	G	...	...	...	+ 4 12 20.56	21.01	— 0.45
12 23 55 53.9	G	...	...	...	+ 3 49 22.10	23.53	— 1.43
16 23 54 29.5	G	...	...	...	+ 2 16 53.41	55.22	— 1.81
18 23 53 47.4	G	11 46 6.38	6.23	+ 0.15	+ 1 30 21.72	21.26	+ 0.46

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862—cont.							
d h m s		h m s	s	s	° ' "	"	"
Sept. 23 23 52 3.2	G	...	...	...	— 0 26 32.49	31.76	— 0.73
24 23 51 42.8	G	...	...	...	— 0 49 57.74	57.16	— 0.58
Dec. 12 23 54 22.9	G	17 21 49.44	49.08	+ 0.36	—23 9 58.30	59.33	+ 1.03
14 23 55 20.5	G	17 30 40.20	39.93	+ 0.27	—23 17 5.73	7.49	+ 1.76
15 23 55 49.8	G	17 35 6.07	5.78	+ 0.29	—23 19 57.76	59.73	+ 1.97
16 23 56 19.3	W	...	...	...	—23 22 22.31	23.99	+ 1.68
17 23 56 48.9	G	...	...	...	—23 24 18.53	19.93	+ 1.40
18 23 57 18.7	G	17 48 24.80	24.63	+ 0.17	—23 25 46.00	47.68	+ 1.68
19 23 57 48.6	G	...	...	...	—23 26 44.62	47.24	+ 2.62
21 23 58 48.8	G	...	...	...	—23 27 19.43	18.76	— 0.67
22 23 59 18.8	G	...	...	...	—23 26 58.92	56.10	— 2.82
23 23 59 48.9	G	...	...	...	—23 26 1.33	2.35	+ 1.02
1863.							
June 7 23 58 37.3	G	...	...	...	+22 49 49.40	46.79	+ 2.61
10 23 59 12.2	G	...	...	...	+23 4 35.90	34.02	+ 1.88
11 23 59 24.4	G	...	...	...	+23 8 42.46	41.18	+ 1.28
12 23 59 36.7	G	...	...	...	+23 12 24.96	23.83	+ 1.13
17 0 0 27.7	G	...	...	...	+23 23 9.90	8.68	+ 1.22
19 0 0 53.8	G	...	...	...	+23 26 2.38	2.73	— 0.35
20 0 1 6.8	G	5 53 43.06	42.92	+ 0.14	+23 26 54.29	52.50	+ 1.79
22 0 1 32.9	G	...	...	...	+23 27 19.19	17.89	+ 1.30
23 0 1 45.9	G	...	...	...	+23 26 53.64	53.32	+ 0.32
24 0 1 58.8	G	...	...	...	+23 26 4.96	4.09	+ 0.87
29 0 3 1.2	G	6 31 6.84	6.63	+ 0.21	+23 15 47.57	47.61	— 0.04
30 0 3 13.1	G	6 34 15.41	15.17	+ 0.24	+23 12 32.04	30.65	+ 1.39
July 1 0 3 24.8	G	...	...	...	+23 8 49.88	49.41	+ 0.47
2 0 3 36.2	G	6 43 31.71	31.52	+ 0.19	+23 4 44.49	43.75	+ 0.74
3 0 3 47.4	G	6 47 39.48	39.32	+ 0.16	+23 0 15.02	13.99	+ 1.03
Sept. 7 23 57 42.2	G	...	...	...	+ 5 48 54.65	52.90	+ 1.75
8 23 57 21.8	G	...	...	...	+ 5 26 16.82	16.00	+ 0.82
9 23 57 1.3	G	...	...	...	+ 5 3 36.31	33.58	+ 2.73
11 23 56 20.0	G	...	...	...	+ 4 17 54.62	53.48	+ 1.14
14 23 55 17.2	G	11 30 52.77	52.68	+ 0.09	+ 3 8 51.26	50.39	+ 0.87

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1864—cont.							
d h m s		h m s	s	s	° ' "	"	"
June 9 23 59 10.6	G	5 15 20.37	20.43	— 0.06	+23 3 28.94	27.51	+ 1.43
16 0 0 25.0	G	...	...	...	+23 22 40.24	37.68	+ 2.56
17 0 0 37.8	G	...	...	...	+23 24 24.22	23.18	+ 1.04
18 0 0 50.7	G	5 48 33.26	33.25	+ 0.01	+23 25 45.18	43.91	+ 1.27
20 0 1 16.5	G	5 56 52.20	52.20	0.00	+23 27 13.00	10.96	+ 2.04
21 0 1 29.4	G	6 1 1.65	1.68	— 0.03	+23 27 19.06	16.61	+ 2.45
23 0 1 55.0	G	6 9 20.58	20.53	+ 0.05	+23 26 17.28	15.58	+ 1.70
24 0 2 7.8	CF	6 13 29.65	29.87	— 0.22	...	...	...
29 0 3 9.8	G	6 34 14.92	14.87	+ 0.05	+23 13 18.40	16.78	+ 1.62
Sept. 8 23 57 5.9	G	11 12 2.01	1.99	+ 0.02	+ 5 9 4.96	4.46	+ 0.50
12 23 55 42.3	G	...	...	...	+ 3 37 35.35	34.39	+ 0.96
13 23 55 21.2	G	11 29 59.69	59.70	— 0.01	+ 3 14 33.08	31.39	+ 1.69
14 23 54 59.8	G	11 33 35.00	34.98	+ 0.02	+ 2 51 25.85	24.77	+ 1.08
15 23 54 38.6	CF	11 37 10.22	10.23	— 0.01	+ 2 28 16.97	14.93	+ 2.04
16 23 54 17.3	G	...	...	...	+ 2 5 2.40	2.07	+ 0.33
18 23 53 35.0	G	11 47 56.09	56.05	+ 0.04	+ 1 18 29.71	28.61	+ 1.10
21 23 52 32.0	G	...	...	...	+ 0 8 24.98	24.04	+ 0.94
23 23 51 50.5	G	12 5 54.01	54.08	— 0.07	— 0 38 23.81	24.68	+ 0.87
25 23 51 9.8	G	12 13 6.36	6.37	— 0.01	— 1 25 13.96	14.60	+ 0.64
26 23 50 49.8	G	12 16 42.83	42.82	+ 0.01	— 1 48 37.76	39.13	+ 1.37
Dec. 12 23 54 37.2	G	...	...	...	—23 11 50.78	52.56	+ 1.78
13 23 55 5.9	G	17 28 30.86	30.90	— 0.04	—23 15 24.58	26.29	+ 1.71
14 23 55 35.0	G	...	...	...	—23 18 29.57	32.12	+ 2.55
15 23 56 4.2	G	...	...	...	—23 21 9.09	10.06	+ 0.97
16 23 56 33.7	G	...	...	...	—23 23 18.46	19.84	+ 1.38
18 23 57 33.1	G	...	...	...	—23 26 14.50	14.79	+ 0.29
19 23 58 3.0	G	...	...	...	—23 26 59.86	59.95	+ 0.09
20 23 58 33.0	G	...	...	...	—23 27 15.86	16.80	+ 0.94
22 23 59 33.1	G	...	...	...	—23 26 24.34	25.31	+ 0.97
24 0 0 3.1	G	...	...	...	—23 25 15.91	17.06	+ 1.15
27 0 1 32.7	G	...	...	...	—23 19 1.60	2.71	+ 1.11
28 0 2 2.3	G	...	...	...	—23 15 59.59	61.65	+ 2.06
29 0 2 31.7	G	18 35 6.21	6.19	+ 0.02	—23 12 32.13	32.58	+ 0.45
30 0 3 0.8	G	18 39 32.01	31.98	+ 0.03	—23 8 34.59	35.51	+ 0.92
31 0 3 29.7	G	18 43 57.53	57.49	+ 0.04	—23 4 8.94	10.74	+ 1.80

June 29. Only second limb observed in R.A. A correction of — 0.04 has been applied to Tabular Semidiameter.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Deco.	Seconds of Tabular Deco.	Correction to Tabular Deco.
1865.										
	d	h	m	s		h	m	s		
Jan.	4	0	5	21.6	G	...	...	...	—22 41 55.07	56.94 + 1.87
	5	0	5	48.5	G	19 5 59.51	59.52	— 0.01	—22 35 13.79	15.62 + 1.83
Mar.	14	0	9	20.4	G	23 37 37.62	37.64	— 0.02	— 2 25 14.77	17.34 + 2.57
	15	0	9	3.3	G	23 41 17.02	16.99	+ 0.03	— 2 1 35.99	37.60 + 1.61
	16	0	8	45.9	G	23 44 56.19	56.11	+ 0.08	— 1 37 55.35	56.75 + 1.40
	17	0	8	28.3	G	23 48 35.07	35.03	+ 0.04	— 1 14 14.04	15.19 + 1.15
	18	0	8	10.5	G	23 52 13.83	13.78	+ 0.05	— 0 50 32.41	33.10 + 0.69
	20	0	7	34.7	G	23 59 30.87	30.85	+ 0.02	— 0 3 8.20	9.27 + 1.07
	21	0	7	16.5	G	0 3 9.21	9.20	+ 0.01	+ 0 20 33.16	31.88 + 1.28
	22	0	6	58.3	G	0 6 47.63	47.48	+ 0.15	+ 0 44 14.13	12.05 + 2.08
	23	0	6	40.0	G	...	...	...	+ 1 7 51.60	50.73 + 0.87
	25	0	6	3.2	G	...	...	...	+ 1 55 4.25	2.35 + 1.90
	28	0	5	8.0	G	0 28 36.30	36.25	+ 0.05	+ 3 5 32.44	29.83 + 2.61
	29	0	4	49.7	G	0 32 14.45	14.39	+ 0.06	+ 3 28 53.05	52.33 + 0.72
Apr.	4	0	3	1.0	G	...	...	...	+ 5 47 31.12	29.98 + 1.14
	24	23	57	51.3	G	2 11 41.98	41.90	+ 0.08	+13 16 10.31	9.36 + 0.95
June	6	23	58	32.2	G	5 1 54.74	54.78	— 0.04	+22 46 59.17	57.50 + 1.67
	7	23	58	43.4	G	5 6 2.46	2.50	— 0.04	+22 52 30.35	29.03 + 1.32
	8	23	58	54.8	G	...	...	...	+22 57 38.46	36.37 + 2.09
	9	23	59	6.4	G	...	...	...	+23 2 20.29	19.62 + 0.67
	11	23	59	30.4	G	5 22 35.94	35.86	+ 0.08	+23 10 33.86	33.12 + 0.74
	12	23	59	42.7	G	5 26 44.79	44.74	+ 0.05	+23 14 5.33	3.17 + 2.16
	13	23	59	55.2	G	5 30 53.77	53.78	— 0.01	+23 17 10.47	8.63 + 1.84
	15	0	0	7.8	G	...	...	...	+23 19 49.42	49.60 — 0.18
	17	0	0	33.4	CF	5 43 21.76	21.79	— 0.03	+23 23 59.77	57.24 + 2.53
	19	0	0	59.4	CF	...	...	...	+23 26 28.27	25.70 + 2.57
	21	0	1	25.6	G	...	...	...	+23 27 15.06	14.81 + 0.25
	22	0	1	38.6	G	6 4 9.97	9.96	+ 0.01	+23 27 3.77	2.42 + 1.35
	24	0	2	4.7	G	...	...	...	+23 25 23.57	22.96 + 0.61
	26	0	2	30.1	G	6 20 47.86	47.85	+ 0.01	+23 22 6.76	4.69 + 2.07
	28	0	2	55.0	G	6 29 5.96	5.96	0.00	+23 17 9.23	7.91 + 1.32
	29	0	3	7.2	G	...	...	...	+23 14 4.13	2.76 + 1.37
	30	0	3	19.1	G	6 37 23.25	23.22	+ 0.03	+23 10 33.90	33.12 + 0.78

June 19. Only South limb observed in Declination, no correction applied.

R.A. and Dec. of the Moon.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.			
1861.													
	d	h	m	s		h	m	s					
Jan.	1	16	15	4.0	W	11	2	0.39	1.52	- 1.13	+ 1 36 49.27	39.44	+ 9.83
	4	18	44	58.2	G	13	44	8.89	10.59	- 1.70	...	...	...
	16	4	4	1.4	C	23	48	6.05	5.86	+ 0.19	...	...	...
	17	4	44	21.9	G	0	32	29.71	29.52	+ 0.19	...	...	...
	19	6	9	40.5	G	2	5	55.48	55.44	+ 0.04	...	...	...
	21	7	46	36.3	C	3	51	0.27	0.84	- 0.57	+24 24 43.49	45.99	- 2.50
	23	9	36	12.7	C	5	48	47.79	48.72	- 0.93	+25 41 50.61	46.70	+ 3.91
	24	10	33	19.1	G	6	50	0.18	1.33	- 1.15	+24 0 43.91	34.58	+ 9.33
	25	11	29	53.2	C	7	50	40.08	41.51	- 1.43	+20 44 65.55	53.23	+12.32
	26	12	24	47.3	G	8	49	39.73	41.07	- 1.34	+16 6 26.30	17.65	+ 8.65
	28	14	8	51.2	C	10	41	53.91	55.09	- 1.18	+ 4 3 11.49	1.44	+10.05
	29	14	59	13.1	G	11	36	20.57	22.21	- 1.64	- 2 32 11.28	21.13	+ 9.85
	31	16	41	40.8	G	13	26	58.25	59.73	- 1.48	-14 46 46.58	53.81	+ 7.23
Feb.	1	17	35	32.3	G	14	24	55.18	56.75	- 1.57	-19 40 19.01	23.29	+ 4.28
	2	18	31	35.5	G	15	25	4.08	5.59	- 1.51	...	...	...
	14	3	21	42.0	W	0	59	59.80	59.66	+ 0.14	...	...	...
	15	4	4	16.7	C	1	46	38.05	38.07	- 0.02	...	...	...
	18	6	27	58.8	C	4	22	33.46	34.03	- 0.57	+25 13 56.34	53.81	+ 2.53
	19	7	21	37.4	G	5	20	17.42	18.33	- 0.91	+25 49 52.85	50.61	+ 2.24
	20	8	17	3.6	C	6	19	49.26	50.11	- 0.85	+24 57 23.17	17.73	+ 5.44
	21	9	13	1.2	G	7	19	52.63	53.68	- 1.05	+22 31 63.44	53.75	+ 9.69
	24	11	55	16.8	W	10	14	24.51	25.55	- 1.04	+ 7 18 64.58	54.54	+10.04
	25	12	47	23.6	C	11	10	36.47	37.63	- 1.16	+ 0 39 17.08	10.57	+ 6.51
	26	13	39	39.5	G	12	6	57.48	58.91	- 1.43	- 6 4 39.25	47.19	+ 7.94
	27	14	32	51.9	C	13	4	24.13	25.32	- 1.19	-12 24 19.14	23.96	+ 4.82
Mar.	1	16	25	17.3	C	15	4	52.12	52.96	- 0.84	-22 5 13.16	13.06	- 0.10
	2	17	23	49.5	G	16	7	30.50	31.36	- 0.86	-24 45 32.95	27.40	- 5.55
	18	5	12	27.7	G	4	57	13.38	13.88	- 0.50	...	...	...
	19	6	5	42.5	C	5	54	33.49	34.22	- 0.73	+25 17 26.75	21.10	+ 5.65
	20	6	59	44.2	C	6	52	40.65	42.24	- 1.59	+23 36 40.10	29.66	+10.44
	21	7	53	38.7	G	7	50	40.56	41.33	- 0.77	+20 30 12.92	2.30	+10.62
	22	8	46	47.6	C	...	...	...	...	...	+16 4 50.76	40.32	+10.44
	23	9	39	7.6	G	9	44	19.90	20.67	- 0.77	+10 33 21.75	9.66	+12.09

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1861—cont.										
	d	h	m	s		h	m	s		
July	14	5	21	27.9	W	12 51 28.74	29.98	— 1.24	— 11 14 19.41	25.60 + 6.19
	15	6	13	54.8	O	13 48 0.78	2.08	— 1.30	— 16 31 44.57	48.33 + 3.76
	16	7	9	29.1	G	14 47 40.81	42.03	— 1.22	— 20 50 25.87	29.70 + 3.83
	17	8	8	5.6	O	15 50 23.45	24.48	— 1.03	— 23 48 16.50	14.89 — 1.61
	18	9	8	36.9	G	16 55 1.25	2.37	— 1.12	— 25 7 50.50	48.02 — 2.48
	19	10	9	5.5	O	17 59 36.32	37.39	— 1.07	— 24 42 12.45	6.55 — 5.90
	25	15	6	10.7	G	23 21 9.67	10.18	— 0.51	+ 1 6 24.98	26.12 — 1.14
Aug.	12	5	5	22.4	O	14 29 40.69	41.90	— 1.21	— 19 34 58.36	66.75 + 8.39
	13	6	2	44.2	G	15 31 8.50	9.65	— 1.15	— 22 58 6.63	11.58 + 4.95
	14	7	1	54.1	O	16 34 24.64	25.70	— 1.06	— 24 48 27.45	28.89 + 1.44
	16	8	59	12.8	O	18 39 55.70	56.66	— 0.96	— 23 29 30.51	20.52 — 9.99
	19	11	33	15.3	O	21 26 13.16	13.92	— 0.76	— 11 49 8.15	0.59 — 7.56
	23	14	24	48.9	O	...	...	...	+ 9 14 10.57	11.70 — 1.13
	24	15	7	14.6	G	1 20 30.42	30.91	— 0.49	+ 13 53 51.77	49.65 + 2.12
	26	16	36	57.8	O	2 58 21.52	21.82	— 0.30	+ 21 15 22.74	17.82 + 4.92
	27	17	25	5.7	G	3 50 33.89	34.28	— 0.39	+ 23 36 32.68	27.41 + 5.27
	28	18	15	24.9	G	4 44 57.84	58.38	— 0.54	...	...
Sept.	9	3	56	46.8	O	15 11 17.32	19.40	— 2.08	...	...
	13	7	49	56.9	O	19 20 51.98	52.55	— 0.57	— 21 28 21.36	19.99 — 1.37
	14	8	41	37.0	G	20 16 37.14	37.50	— 0.36	— 17 52 13.64	9.99 — 3.65
	15	9	29	45.4	W	21 8 49.99	50.38	— 0.39	— 13 25 34.32	30.69 — 3.63
	16	10	14	57.9	O	21 58 6.49	7.35	— 0.86	— 8 26 23.32	20.70 — 2.62
	17	10	58	5.7	G	22 45 17.88	18.86	— 0.98	— 3 10 33.52	31.41 — 2.11
	21	13	47	10.6	G	1 50 36.78	37.56	— 0.78	+ 16 21 57.92	52.43 + 5.49
Oct.	8	3	47	23.8	G	16 56 12.84	15.01	— 2.17	...	...
	10	5	45	25.3	W	19 2 26.82	27.58	— 0.76	— 22 7 28.05	24.96 — 3.09
	11	6	38	40.9	G	19 59 47.69	48.25	— 0.56	— 18 50 15.28	9.06 — 6.22
	12	7	27	52.3	W	20 53 3.74	4.16	— 0.42	— 14 38 33.10	27.75 — 5.35
	13	8	13	39.5	W	21 42 55.07	55.35	— 0.28	— 9 51 15.60	13.38 — 2.22
	14	8	56	59.0	G	22 30 18.25	18.45	— 0.20	— 4 44 17.96	15.39 — 2.57
	15	9	38	50.8	W	23 16 13.45	13.92	— 0.47	+ 0 29 9.92	11.01 — 1.09

August 16, September 9, 21. Exceedingly bad definition.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1861—cont.							
d h m s		h m s	s	s	° ' "	"	"
Oot. 16 10 20 12.7	G	0 1 38.69	39.51	— 0.82	+ 5 37 22.58	25.75	— 3.17
17 11 1 57.1	W	0 47 26.49	27.31	— 0.82	+ 10 29 27.90	30.50	— 2.60
18 11 44 47.3	G	...	...	...	+ 14 54 31.63	33.10	— 1.47
19 12 29 16.3	W	2 22 53.13	54.52	— 1.39	+ 18 41 30.94	32.58	— 1.64
21 14 3 59.2	G	4 5 44.73	45.77	— 1.04	+ 23 38 21.52	19.41	+ 2.11
25 17 24 45.0	G	7 42 49.78	50.67	— 0.89	...	...	...
Nov. 7 4 31 17.6	G	19 38 32.00	32.90	— 0.90	...	...	...
8 5 23 20.2	W	20 34 38.19	38.80	— 0.61	— 15 56 54.56	47.23	— 7.33
10 6 55 35.4	G	22 15 1.64	1.97	— 0.33	— 6 11 47.67	43.77	— 3.90
11 7 37 58.7	W	23 1 28.46	28.83	— 0.37	...	...	...
13 9 0 46.4	W	0 32 22.91	23.30	— 0.39	+ 9 3 39.89	38.65	+ 1.24
14 9 43 3.8	W	1 18 43.74	44.15	— 0.41	+ 13 35 12.76	10.50	+ 2.26
15 10 26 55.4	G	2 6 39.20	39.41	— 0.21	+ 17 32 50.66	51.78	— 1.12
16 11 12 46.0	G	2 56 33.88	34.33	— 0.45	+ 20 45 44.90	43.60	+ 1.30
17 12 0 39.2	W	3 48 31.45	32.46	— 1.01	+ 23 2 51.97	51.66	+ 0.31
18 12 50 13.7	G	4 42 10.70	11.87	— 1.17	+ 24 14 46.39	43.81	+ 2.58
19 13 40 45.5	W	5 36 47.31	48.25	— 0.94	+ 24 14 54.37	54.02	+ 0.35
21 15 21 8.2	W	7 25 19.59	20.42	— 0.83	+ 20 37 8.52	2.61	+ 5.91
22 16 9 46.8	G	8 18 2.73	3.39	— 0.66	+ 17 8 37.05	32.32	+ 4.73
23 16 57 17.2	W	9 9 37.51	38.47	— 0.96	+ 12 45 22.71	13.91	+ 8.80
24 17 44 9.3	G	10 0 33.85	34.77	— 0.92	+ 7 38 12.48	3.40	+ 9.08
Dec. 5 3 11 59.8	CF	20 9 23.24	24.17	— 0.93	...	...	...
6 4 3 18.3	CF	21 4 46.75	47.35	— 0.60	...	...	...
7 4 50 27.9	G	21 56 0.59	0.90	— 0.31	...	...	...
8 5 34 36.5	W	22 44 13.09	13.42	— 0.33	— 2 46 51.90	50.90	— 1.00
9 6 16 57.4	G	23 30 37.47	37.66	— 0.19	+ 2 28 12.62	12.26	+ 0.36
10 6 58 38.4	W	0 16 21.85	22.28	— 0.43	+ 7 30 39.29	36.51	+ 2.78
11 7 40 41.1	G	1 2 28.03	28.45	— 0.42	+ 12 11 1.55	1.41	+ 0.14
13 9 9 2.2	G	2 38 56.72	57.22	— 0.50	+ 19 48 14.11	9.90	+ 4.21
14 9 56 16.3	W	3 30 15.17	15.58	— 0.41	+ 22 24 31.25	24.46	+ 6.79
15 10 45 30.9	G	4 23 34.40	34.85	— 0.45	+ 23 58 43.21	36.50	+ 6.71
16 11 36 10.5	W	5 18 18.96	19.45	— 0.49	+ 24 22 32.03	28.22	+ 3.81
17 12 27 19.4	G	6 13 32.79	33.69	— 0.90	+ 23 31 47.20	42.99	+ 4.21

December 14. Very bad definition.

Cape Mean Time of Transit of Centre.			Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1861—cont.									
	d	h	m	s					
Dec.	18	13	17	59.4	W	7 8 17.67	18.60—0.93	+21 27 24.10	21.73+2.37
	20	14	55	28.2	W	8 53 55.53	56.38—0.85	+14 6 36.70	29.85+6.85
	21	15	42	16.6	G	9 44 48.18	48.71—0.53	+9 12 20.04	14.90+5.14
	22	16	28	30.6	W	10 35 6.35	7.16—0.81	+3 46 15.17	11.29+3.88
	23	17	15	7.4	G	11 25 47.44	48.33—0.89	—1 57 20.79	25.17+4.38
1862.									
Jan.	4	3	26	46.8	CF	22 22 29.43	28.98+0.45	...	...
	7	5	36	21.5	G	0 44 15.09	14.59+0.51	+10 24 42.31	39.24+3.07
	8	6	19	27.7	W	1 31 24.87	24.40+0.47	+14 49 9.57	6.11+3.46
	9	7	3	56.1	G	2 19 57.21	56.68+0.53	+18 34 33.25	29.54+3.71
	10	7	50	17.6	W	3 10 22.86	22.31+0.55	+21 31 26.92	26.12+0.80
	11	8	38	41.5	G	4 2 51.31	50.83+0.48	+23 30 14.22	15.13—0.91
	12	9	28	51.4	W	4 57 5.91	5.55+0.36	+24 21 64.49	59.79+4.70
	13	10	20	5.9	G	5 52 25.47	24.87+0.60	+24 0 18.57	13.90+4.67
	14	11	11	28.7	W	6 47 53.28	52.93+0.35	+22 22 52.57	52.97—0.40
	15	12	2	8.6	G	...	...	+19 33 18.72	16.56+2.16
	17	13	39	39.3	G	9 28 17.81	17.51+0.30	+10 54 56.33	53.12+3.21
	19	15	13	43.8	G	...	...	—0 9 47.41	46.73—0.68
	21	16	50	46.0	G	12 55 42.21	42.30—0.09	—11 28 52.45	54.04+1.59
	22	17	42	52.6	W	13 51 53.92	54.04—0.12	—16 26 52.28	54.75+2.47
	23	18	38	20.0	G	14 51 26.74	26.88—0.14	...	...
Feb.	8	7	20	0.1	G	4 34 20.51	19.97+0.54	+24 1 44.39	43.95+0.44
	9	8	10	27.8	W	5 28 53.06	52.74+0.32	+24 12 25.19	21.03+4.16
	10	9	1	33.5	G	...	...	+23 8 59.00	56.56+2.44
	11	9	52	31.8	W	...	...	+20 51 38.51	38.63—0.12
	14	12	20	35.3	G	...	...	+7 46 52.00	50.85+1.15
	15	13	8	47.2	W	10 51 40.80	40.71+0.09	+2 4 12.02	10.00+2.02
	16	13	57	26.2	G	11 44 24.33	24.40—0.07	—3 50 9.98	10.56+0.58
Mar.	10	7	41	41.7	W	6 54 22.27	21.91+0.36	+21 50 12.33	11.86+0.47
	11	8	31	33.5	G	7 48 18.85	18.67+0.18	+18 58 54.45	51.35+3.10
	12	9	20	48.4	W	8 41 38.41	38.15+0.26	+15 4 10.48	9.84+0.64
	13	10	9	32.5	G	9 34 27.04	26.80+0.24	+10 15 39.37	36.48+2.89
	14	10	58	11.6	W	10 27 10.72	10.45+0.27	+4 46 11.45	11.96—0.51

1861 December 18, 21, 22, 23. Very bad definition.

1862 January 10, 17. Definition excessively bad.

January 18, 19. Very faint, through cloud.

February 9. Very bad definition.

February 10. Barely visible, through cloud.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862—cont.							
d h m s		h m s	s	s	° ' "	"	"
Mar. 15 11 47 26.8	G	...	...	...	— 1 7 26.13	22.11	— 4.02
18 14 26 42.2	W	14 12 1.72	1.46	+ 0.26	—17 33 16.94	18.01	+ 1.07
19 15 25 9.0	W	15 14 34.73	34.94	— 0.21	—21 13 59.51	59.40	— 0.11
20 16 25 32.5	W	16 19 4.68	4.76	— 0.08	—23 23 59.93	61.41	+ 1.48
21 17 26 16.9	W	17 23 55.64	55.72	— 0.08	—23 53 4.32	5.61	+ 1.29
22 18 25 31.2	W	...	...	...	—22 42 59.80	57.88	— 1.92
Apr. 7 6 22 14.1	G	...	...	...	+20 5 10.69	5.15	+ 5.54
8 7 10 33.3	W	...	...	...	+16 43 9.79	8.28	+ 1.51
9 7 58 18.6	G	9 9 18.54	18.42	+ 0.12	+12 25 55.79	51.50	+ 4.29
10 8 45 57.4	W	10 1 1.71	1.45	+ 0.26	+ 7 22 46.12	44.96	+ 1.16
12 10 23 57.3	W	11 47 10.77	10.53	+ 0.24	— 4 7 23.73	22.69	— 1.04
13 11 16 9.9	G	...	...	...	— 9 56 53.31	54.59	+ 1.28
14 12 11 37.8	W	13 43 2.04	1.96	+ 0.08	—15 16 18.20	17.94	— 0.26
19 17 16 26.5	G	...	...	...	—20 50 7.52	9.69	+ 2.17
20 18 11 11.4	W	20 7 14.04	14.06	— 0.02	—17 21 24.02	24.25	+ 0.23
21 19 1 50.6	G	...	...	...	—12 59 36.99	39.43	+ 2.44
May 8 7 23 41.4	G	10 28 55.66	55.42	+ 0.24	+ 4 13 60.41	57.34	+ 3.07
9 8 11 11.5	W	11 20 30.20	29.92	+ 0.28	— 1 22 34.28	33.53	— 0.75
10 9 0 53.2	G	12 14 16.58	16.54	+ 0.04	— 7 6 55.39	57.09	+ 1.70
11 9 53 52.3	W	13 11 20.94	20.70	+ 0.24	—12 38 10.82	9.93	— 0.89
12 10 50 56.5	G	14 12 31.04	30.84	+ 0.20	—17 29 27.97	27.76	— 0.21
13 11 52 9.3	W	15 17 50.46	50.47	— 0.01	...	...	...
15 14 1 19.9	W	...	...	...	—23 25 59.51	61.60	+ 2.09
16 15 3 50.3	G	18 41 52.64	52.52	+ 0.12	—21 48 20.20	24.45	+ 4.25
17 16 2 35.7	W	19 44 34.24	34.47	— 0.23	—18 40 28.63	28.50	— 0.13
18 16 56 18.0	G	20 42 31.90	31.75	+ 0.15	—14 28 6.39	10.31	+ 3.92
19 17 45 53.0	W	21 36 11.65	11.47	+ 0.18	— 9 36 23.25	23.68	+ 0.43
20 18 32 10.0	G	22 26 32.73	32.48	+ 0.25	— 4 25 37.39	41.24	+ 3.85
June 3 4 33 32.5	G	9 20 49.34	49.07	+ 0.27	...	...	...
4 5 18 40.5	G	10 10 1.23	0.80	+ 0.43	+ 6 7 7.76	3.58	+ 4.18
5 6 4 12.3	W	10 59 37.07	36.69	+ 0.38	+ 0 47 37.00	35.37	+ 1.63
6 6 51 11.1	G	11 50 40.18	39.95	+ 0.23	— 4 44 10.80	12.77	+ 1.97
12 12 43 44.9	G	18 7 51.27	50.97	+ 0.30	...	...	...
19 18 40 23.5	G	0 33 4.37	4.30	+ 0.07	...	...	...

March 18, 19. Definition exceedingly bad; foggy.
April 20, May 12. Very bad definition.

Cape Mean Time of Transit of Centre.		Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862—cont.								
	d h m s		h m s	s	s	° ' "	"	"
July	2 4 2 10.5	G	10 43 42.35	42.24	+ 0.11	...	...	...
	4 5 33 51.0	G	...	...	...	— 8 13 61.40	59.97	— 1.43
	5 6 25 2.3	W	13 18 47.24	47.03	+ 0.21	— 13 20 8.01	8.55	+ 0.54
	6 7 18 54.9	G	14 16 45.27	45.27	0.00	— 17 48 2.64	6.09	+ 3.45
	7 8 17 2.9	W	15 18 59.42	59.19	+ 0.23	— 21 13 47.48	47.86	+ 0.38
	8 9 18 54.8	G	16 24 58.02	57.94	+ 0.08	— 23 12 26.98	29.23	+ 2.25
	9 10 22 47.4	W	17 32 57.64	57.26	+ 0.38	— 23 25 52.81	52.30	— 0.51
	10 11 26 7.7	G	18 40 24.89	24.67	+ 0.22	— 21 49 46.33	47.56	+ 1.23
	12 13 23 3.5	G	20 45 33.05	32.76	+ 0.29	— 14 11 25.77	29.25	+ 3.48
	17 17 19 58.1	W	1 2 49.39	49.35	+ 0.04	+ 11 51 57.83	57.60	+ 0.23
	18 18 4 55.7	G	1 51 50.92	50.87	+ 0.05	+ 15 58 34.85	32.14	+ 2.71
Aug.	3 6 8 39.8	G	14 56 42.23	42.21	+ 0.02	— 20 2 4.54	7.18	+ 2.64
	6 9 10 10.0	W	18 10 31.93	31.64	+ 0.29	— 22 41 34.88	35.11	+ 0.23
	11 13 40 54.0	G	23 1 43.17	42.97	+ 0.20	— 0 44 57.45	61.32	+ 3.87
	30 4 4 51.9	G	14 38 59.93	59.72	+ 0.21	...	...	...
Sept.	2 7 1 31.5	G	17 47 59.25	59.20	+ 0.05	— 22 57 16.81	20.81	+ 4.00
	3 8 0 48.9	CF	18 51 22.94	22.56	+ 0.38	— 21 11 10.87	11.21	+ 0.34
	4 8 57 47.8	G	...	...	...	— 18 0 28.38	28.56	+ 0.18
	7 11 31 29.4	CF	...	...	...	— 3 18 16.71	20.25	+ 3.54
	8 12 18 29.8	G	23 29 28.90	28.47	+ 0.43	+ 2 8 57.42	53.84	+ 3.58
	9 13 4 39.1	CF	0 19 42.32	42.17	+ 0.15	...	...	...
	10 13 50 42.1	G	1 9 49.52	49.15	+ 0.37	+ 12 7 12.53	7.82	+ 4.71
	11 14 37 12.0	CF	2 0 23.60	23.42	+ 0.18	...	...	...
	12 15 24 29.9	G	2 51 45.77	45.62	+ 0.15	+ 19 26 6.27	2.47	+ 3.80
	13 16 12 40.3	CF	3 44 0.65	0.52	+ 0.13	+ 21 42 34.42	29.13	+ 5.29
	14 17 1 32.2	G	4 36 57.16	56.92	+ 0.24	+ 22 55 34.89	32.12	+ 2.77
Oct.	2 7 46 37.5	CF	20 31 29.21	28.98	+ 0.23	— 15 3 20.57	18.80	— 1.77
	3 8 37 25.5	G	21 26 22.10	21.90	+ 0.20	— 10 23 44.09	45.06	+ 0.97
	5 10 12 22.3	G	23 9 27.65	27.40	+ 0.25	+ 0 3 27.58	25.97	+ 1.61
	13 16 32 6.7	CF	6 1 46.87	46.75	+ 0.12	+ 22 49 25.81	20.51	+ 5.30
	28 4 47 45.2	G	19 14 37.90	37.49	+ 0.41	...	...	...
	31 7 23 32.0	CF	...	...	...	— 6 41 51.83	54.24	+ 2.41

September 9. Very bad definition.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862—cont.							
d h m s		h m s	s	s	° ' "	"	"
Nov. 1 8 9 58.2	G	22 53 10.36	10.12	+ 0.24	— 1 30 28.71	31.82	+ 3.11
2 8 55 12.5	G	23 42 28.66	28.48	+ 0.18	+ 3 39 10.51	8.17	+ 2.34
6 11 59 28.6	G	...	...	...	+ 19 46 5.30	2.63	+ 2.67
7 12 48 1.9	CF	3 55 39.11	39.01	+ 0.10	+ 21 45 43.21	40.89	+ 2.32
9 14 26 11.5	G	5 41 57.90	57.60	+ 0.30	+ 22 30 59.45	51.25	+ 8.20
28 6 8 9.0	G	22 37 28.21	27.85	+ 0.36	— 3 1 20.80	25.10	+ 4.30
29 6 53 56.2	W	23 27 19.40	19.04	+ 0.36	+ 2 11 15.00	11.17	+ 3.83
30 7 38 47.6	W	0 16 14.81	14.47	+ 0.34	+ 7 10 8.25	3.36	+ 4.89
Dec. 1 8 23 39.1	G	1 5 10.17	9.89	+ 0.28	+ 11 43 45.46	43.78	+ 1.68
2 9 9 13.2	CF	1 54 48.29	48.00	+ 0.29	+ 15 41 45.66	45.02	+ 0.64
4 10 43 50.1	CF	3 37 33.89	33.25	+ 0.64	+ 21 12 27.08	26.64	+ 0.44
5 11 32 38.8	G	4 30 27.16	26.69	+ 0.47	+ 22 29 17.82	14.91	+ 2.91
6 12 21 45.8	CF	5 23 38.81	38.42	+ 0.39	+ 22 40 50.83	47.38	+ 3.45
7 13 10 27.3	W	6 16 24.89	24.76	+ 0.13	+ 21 47 4.65	3.01	+ 1.64
8 13 58 6.4	CF	7 8 8.36	8.14	+ 0.22	+ 19 51 50.18	50.76	— 0.58
10 15 29 16.0	CF	8 47 26.07	25.91	+ 0.16	+ 13 25 36.67	38.67	— 2.00
11 16 13 10.0	G	...	...	...	+ 9 12 3.84	2.33	+ 1.51
28 6 21 27.7	T	0 49 5.74	5.43	+ 0.31	+ 10 15 57.88	53.43	+ 4.45
29 7 7 4.9	T	1 38 47.07	46.53	+ 0.54	+ 14 28 23.33	19.49	+ 3.84
30 7 53 24.3	T	2 29 10.60	10.31	+ 0.29	+ 17 56 44.13	41.28	+ 2.85
31 8 40 45.0	CF	3 20 35.61	35.26	+ 0.35	+ 20 32 59.18	58.53	+ 0.65
1863.							
Jan. 1 9 29 3.9	T	...	...	...	+ 22 10 20.06	23.11	— 3.05
2 10 17 57.6	CF	5 5 57.35	57.10	+ 0.25	+ 22 44 10.56	11.23	— 0.67
4 11 55 0.3	G	...	...	...	+ 20 37 60.55	56.98	+ 3.57
5 12 41 59.5	CF	7 42 12.53	12.26	+ 0.27	+ 18 5 23.00	20.44	+ 2.56
6 13 27 35.7	G	8 31 52.84	52.75	+ 0.09	+ 14 42 56.92	55.85	+ 1.07
8 14 55 31.4	G	10 7 56.11	56.14	— 0.03	+ 6 7 28.43	25.56	+ 2.87
9 15 38 58.2	G	10 55 26.55	26.64	— 0.09	+ 1 14 55.77	54.61	+ 1.16
10 16 23 9.5	W	...	...	...	— 3 46 21.05	23.16	+ 2.11
13 18 50 8.9	G	14 22 54.93	55.19	— 0.26	...	...	...
14 19 46 44.5	G	15 23 36.34	36.55	— 0.21	...	...	...
26 5 48 59.9	G	2 10 52.79	52.52	+ 0.27	+ 16 36 52.10	50.24	+ 1.86

November 9. Worst possible definition ; objects diffused and unsteady.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1863— <i>cont.</i>							
<i>d h m s</i>		<i>h m s</i>	<i>s</i>	<i>s</i>	<i>° ' "</i>	<i>"</i>	<i>"</i>
Jan. 27 6 36 32.5	G	3 2 29.81	29.50	+ 0.31	+19 35 12.52	10.49	+ 2.03
28 7 24 46.1	CF	3 54 47.85	47.56	+ 0.29	+21 35 16.01	16.39	— 0.38
30 9 2 20.0	CF	5 40 30.86	30.55	+ 0.31	+22 25 34.25	32.75	+ 1.50
Feb. 2 11 24 36.1	W	8 14 60.04	59.81	+ 0.23	+15 58 24.44	24.21	+ 0.23
4 12 54 8.9	G	9 52 40.66	40.56	+ 0.10	+ 7 44 0.09	0.52	— 0.43
5 13 38 7.7	CF	10 40 43.21	43.13	+ 0.08	+ 2 55 33.01	32.63	+ 0.38
8 15 55 18.9	W	13 10 6.65	6.78	— 0.13	—11 48 39.48	42.22	+ 2.74
9 16 45 33.6	CF	14 4 26.17	26.32	— 0.15	—16 1 44.55	46.54	+ 1.99
11 18 36 11.2	CF	16 3 15.02	15.48	— 0.46	—21 40 32.23	40.26	+ 8.03
25 6 7 3.3	G	4 27 15.78	15.31	+ 0.47	...	...	...
26 6 56 6.2	CF	5 20 23.30	22.98	+ 0.32	+22 22 5.23	1.78	+ 3.45
27 7 44 41.4	IF	6 13 3.08	2.51	+ 0.57	+21 36 34.15	33.23	+ 0.92
28 8 32 26.1	G	7 4 52.18	51.84	+ 0.34	+19 50 3.05	0.02	+ 3.03
Mar. 1 9 19 8.4	CF	...	...	...	+17 7 43.84	42.95	+ 0.89
2 10 4 49.7	W	8 45 23.99	23.78	+ 0.21	+13 36 51.53	50.74	+ 0.79
3 10 49 44.4	G	9 34 22.64	22.55	+ 0.09	+ 9 26 7.41	4.25	+ 3.16
4 11 34 20.0	CF	...	...	...	+ 4 45 28.05	29.55	— 1.50
5 12 19 12.6	IF	11 11 58.63	59.04	— 0.41	— 0 13 17.42	16.45	— 0.97
7 13 52 44.2	IF	12 53 38.76	39.35	— 0.59	—10 10 22.61	18.42	— 4.19
12 18 29 5.2	G	17 50 27.87	28.10	— 0.23	...	...	...
27 6 25 14.2	CF	...	...	...	+20 25 24.19	20.72	+ 3.47
28 7 12 8.7	IF	...	...	...	+18 6 60.26	57.45	+ 2.81
29 7 57 53.9	G	...	...	...	+14 58 21.00	18.68	+ 2.32
Apr. 1 10 12 6.2	G	10 50 58.26	58.16	+ 0.10	+ 1 51 24.78	22.63	+ 2.15
4 12 35 48.4	G	...	...	...	—12 53 39.86	40.13	+ 0.27
7 15 24 8.4	G	16 27 31.05	31.26	— 0.21	—21 41 51.68	49.78	— 1.90
10 18 20 29.4	G	...	...	...	—17 55 45.18	46.06	+ 0.88
25 5 51 5.7	G	...	...	...	+16 10 50.43	45.71	+ 4.72
26 6 35 47.1	G	8 52 37.46	37.29	+ 0.17	+12 39 20.31	16.53	+ 3.78
27 7 19 45.6	W	9 40 39.81	39.58	+ 0.23	+ 8 31 46.60	45.07	+ 1.53
28 8 3 42.5	G	...	...	...	+ 3 56 34.65	31.71	+ 2.94
29 8 48 27.5	W	11 17 29.33	29.08	+ 0.25	— 0 56 53.45	53.28	— 0.17
30 9 34 55.2	CF	...	...	...	— 5 56 43.74	46.11	+ 2.37

February 11. Very faint; bright sunshine.

March 5. Wretched definition.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1863—cont.							
d h m s		h m s	s	s	° ' "	"	"
May 3 12 12 39.6	W	14 58 1.19	1.27	- 0.08	-18 44 52.14	51.55	- 0.59
4 13 12 9.4	OF	16 1 37.31	37.47	- 0.16	-21 5 12.32	8.04	- 4.28
8 17 11 12.6	IF	20 17 6.06	6.63	- 0.57	-15 14 35.67	34.91	- 0.76
9 18 4 24.5	G	21 14 23.26	23.37	- 0.11	-10 48 11.85	14.24	+ 2.39
25 5 57 23.7	W	10 8 27.87	27.77	+ 0.10	+ 5 50 11.42	9.78	+ 1.64
26 6 40 44.4	OF	...	...	...	+ 1 9 22.89	22.70	+ 0.19
27 7 25 16.6	IF	...	...	...	- 3 42 11.28	20.64	+ 9.36
28 8 12 1.1	G	12 35 17.10	16.95	+ 0.15	- 8 33 14.40	16.75	+ 2.35
30 9 55 55.5	G	14 27 21.64	21.56	+ 0.08	-17 6 51.65	55.00	+ 1.35
June 3 14 1 44.3	G	18 49 37.08	37.13	- 0.05	-19 56 9.06	10.42	+ 1.36
6 16 50 48.7	G	21 50 58.92	58.95	- 0.03	- 7 30 2.33	3.48	+ 1.15
7 17 40 41.4	OF	22 44 56.40	56.49	- 0.09	- 2 15 32.19	32.92	+ 0.73
24 6 4 21.1	CF	12 13 43.18	43.24	- 0.06	- 6 28 52.09	55.48	+ 3.39
27 8 36 30.8	W	14 58 7.52	7.68	- 0.16	...	...	...
28 9 35 30.3	W	16 1 13.25	13.27	- 0.02	-21 2 54.13	54.27	+ 0.14
29 10 37 50.9	G	17 7 40.69	40.66	+ 0.03	-21 53 33.40	35.17	+ 1.77
30 11 41 34.4	CF	18 15 31.23	31.23	0.00	-21 2 28.79	26.37	- 2.42
July 1 12 44 17.9	IF	19 22 21.69	22.25	- 0.56	...	...	...
2 13 44 13.3	G	20 26 23.37	23.58	- 0.21	-14 37 30.66	31.93	+ 1.27
5 16 23 49.1	G	23 18 15.08	14.95	+ 0.13	+ 0 58 21.66	19.15	+ 2.51
24 6 25 24.7	IF	14 33 6.97	7.11	- 0.14	-17 13 52.84	57.67	+ 4.83
25 7 20 30.9	CF	15 32 18.69	18.92	- 0.23	-20 1 1.26	3.27	+ 2.01
26 8 19 25.6	W	16 35 19.71	19.72	- 0.01	-21 34 19.31	19.68	+ 0.37
28 10 23 34.4	G	18 47 41.94	41.87	+ 0.07	-19 59 57.84	59.21	+ 1.37
30 12 23 50.1	IF	...	...	...	-12 25 56.08	55.49	- 0.59
31 13 19 42.9	CF	21 56 9.06	8.96	+ 0.10	- 7 13 40.45	40.97	+ 0.52
Aug. 3 15 53 43.0	CF	0 42 24.17	24.00	+ 0.17	...	...	...
4 16 42 58.1	G	1 35 43.88	43.69	+ 0.19	+13 17 41.64	38.57	+ 3.07
24 8 7 26.6	CF	18 17 38.75	38.69	+ 0.06	-20 45 35.06	35.61	+ 0.55
25 9 7 32.4	G	19 21 51.03	50.99	+ 0.04	-18 25 4.06	5.57	+ 1.51
26 10 6 20.8	IF	20 24 45.63	45.49	+ 0.14	-14 43 16.94	15.26	- 1.68
July 31. Very bad definition.							

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1863—cont.							
d h m s		h m s	s	s	° ' "	"	"
Aug. 28 11 57 37.9	IF	22 24 14.14	14.20	— 0.06	— 4 37 21.29	24.35	+ 3.06
31 14 32 44.8	G	1 11 36.18	36.02	+ 0.16	+ 11 9 14.32	11.20	+ 3.12
Sept. 2 16 14 2.9	CF	3 1 4.03	3.88	+ 0.15	+ 18 21 5.24	2.06	+ 3.18
3 17 4 36.8	G	3 55 42.74	42.32	+ 0.42	+ 20 25 15.97	14.25	+ 1.72
4 17 54 47.5	IF	4 49 58.26	58.24	+ 0.02	+ 21 23 42.88	38.69	+ 4.19
5 18 44 12.0	G	5 43 27.48	27.57	— 0.09	...	...	...
23 8 50 19.1	IF	20 58 54.92	54.83	+ 0.09	— 12 2 41.75	44.06	+ 2.31
24 9 44 15.6	G	21 56 56.78	56.65	+ 0.13	— 7 6 33.53	34.21	+ 0.68
25 10 36 46.0	CF	22 53 32.36	32.48	— 0.12	— 1 45 11.55	10.64	— 0.91
Oct. 1 15 45 43.5	CF	4 26 59.93	59.66	+ 0.27	+ 20 52 57.48	54.24	+ 3.24
2 16 36 19.4	IF	5 21 40.78	40.84	— 0.06	+ 21 13 6.86	3.92	+ 2.94
22 8 28 28.4	T	22 31 20.62	20.54	+ 0.08	— 3 46 18.01	20.28	+ 2.27
24 10 9 0.8	T	0 20 2.69	2.55	+ 0.14	+ 6 34 44.96	43.73	+ 1.23
25 10 59 30.0	T	...	...	...	+ 11 15 30.52	27.97	+ 2.55
Nov. 17 5 34 6.8	IF	21 19 0.85	1.01	— 0.16	...	...	...
18 6 25 24.7	G	...	...	...	— 5 17 9.76	12.57	+ 2.81
22 9 42 52.3	W	1 48 9.96	9.82	+ 0.14	+ 13 48 6.37	3.24	+ 3.13
25 12 16 34.2	CF	4 34 6.78	6.72	+ 0.06	+ 20 51 31.17	27.98	+ 3.19
26 13 7 43.9	G	5 29 21.44	21.36	+ 0.08	+ 21 1 32.67	28.32	+ 4.35
27 13 57 36.2	CF	6 23 18.91	18.84	+ 0.07	+ 20 6 42.30	39.37	+ 2.93
28 14 45 39.9	G	...	...	...	+ 18 13 55.00	53.64	+ 1.36
29 15 31 42.8	W	8 5 33.68	33.67	+ 0.01	...	...	...
Dec. 18 6 51 3.3	CF	0 38 23.23	22.91	+ 0.32	+ 8 12 0.74	0.15	+ 0.59
19 7 39 57.1	IF	...	...	...	+ 12 31 44.52	41.33	+ 3.19
20 8 29 26.0	G	2 24 55.20	55.03	+ 0.17	+ 16 7 43.68	43.64	+ 0.04
22 10 10 28.6	IF	...	...	...	+ 20 30 46.01	46.65	— 0.64
23 11 1 17.4	G	5 9 1.19	0.91	+ 0.28	+ 21 6 10.00	9.03	+ 0.97
24 11 51 22.4	CF	6 3 11.03	10.63	+ 0.40	+ 20 36 24.62	22.03	+ 2.59
25 12 40 3.9	W	6 55 57.07	56.79	+ 0.28	+ 19 5 60.70	59.12	+ 1.58
27 14 11 57.6	CF	8 35 58.99	58.71	+ 0.28	...	...	...
28 14 55 19.6	G	9 23 24.65	24.65	0.00	+ 9 56 13.64	12.68	+ 0.96
30 16 19 21.7	CF	...	...	...	+ 1 32 47.95	46.99	+ 0.96

August 31, September 2, 3, October 1. Very bad definition.
December 20. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.			
1864.													
	d	h	m	s		h	m	s					
Jan.	17	7	17	5.5	G	3	2	47.01	46.79	+ 0.22	+17 57 16.82	15.86	+ 0.96
	18	8	7	27.4	CF	3	57	13.73	13.59	+ 0.14	+19 58 21.32	25.22	- 3.90
	19	8	57	48.5	IF	4	51	39.59	39.51	+ 0.08	+20 55 53.36	52.72	+ 0.64
	20	9	47	38.8	G	5	45	34.69	34.45	+ 0.24	+20 49 7.03	7.83	- 0.80
	22	11	23	41.6	CF	7	29	46.38	46.13	+ 0.25	+17 38 8.58	2.50	+ 6.08
	24	12	53	16.8	G	9	7	29.44	29.16	+ 0.28	+11 20 33.61	33.74	- 0.13
	26	14	17	57.4	IF	10	40	17.06	17.31	- 0.25	+ 3 11 57.67	54.01	+ 3.66
	28	15	42	20.5	IF	12	12	47.07	47.15	- 0.08	- 5 32 44.16	45.42	+ 1.26
	30	17	12	36.5	W	...	...	...	...	...	-13 36 6.24	8.42	+ 2.18
Feb.	15	6	54	11.1	G	4	34	8.93	8.97	- 0.04	...	...	...
	16	7	44	24.6	W	5	28	27.18	27.06	+ 0.12	+20 45 30.41	31.04	- 0.63
	17	8	33	27.9	CF	6	21	35.13	34.95	+ 0.18	+19 58 54.71	57.06	- 2.35
	18	9	21	2.2	IF	...	...	...	...	...	+18 15 57.22	53.37	+ 3.85
	19	10	7	0.0	G	8	3	15.68	15.27	+ 0.41	+15 43 49.35	44.89	+ 4.46
	20	10	51	25.5	W	8	51	45.08	44.95	+ 0.13	+12 31 5.22	2.09	+ 3.13
	21	11	34	36.7	W	9	38	59.87	59.78	+ 0.09	+ 8 46 49.43	48.42	+ 1.01
	24	13	41	39.5	G	11	58	13.26	13.26	0.00	- 4 0 51.87	52.60	+ 0.73
	25	14	25	14.9	W	12	45	52.37	52.42	- 0.05	- 8 15 40.75	41.77	+ 1.02
	26	15	10	35.3	CF	13	35	16.77	16.51	+ 0.26	-12 12 9.21	9.54	+ 0.33
	27	15	58	16.3	W	14	27	2.14	2.28	- 0.14	-15 38 6.14	5.02	- 1.12
Mar.	15	6	28	22.7	IF	6	2	36.33	36.58	- 0.25	+20 7 52.06	46.60	+ 5.46
	16	7	16	54.8	G	6	55	12.91	12.63	+ 0.28	+18 44 47.84	41.77	+ 6.07
	17	8	3	33.7	W	7	45	56.04	55.91	+ 0.13	+16 30 16.85	14.73	+ 2.12
	18	8	48	29.2	CF	8	34	55.52	55.30	+ 0.22	+13 32 61.34	55.91	+ 5.43
	19	9	32	1.8	IF	9	22	31.75	31.70	+ 0.05	+10 1 26.11	22.91	+ 3.20
	20	10	14	41.3	W	...	...	...	...	...	+ 6 4 16.98	14.74	+ 2.24
	21	10	57	2.2	G	10	55	39.23	39.20	+ 0.03	+ 1 50 27.79	22.72	+ 5.07
	22	11	39	43.0	IF	11	42	23.63	23.70	- 0.07	- 2 30 53.55	50.15	- 3.40
	23	12	23	23.1	CF	12	30	7.47	7.45	+ 0.02	- 6 49 3.27	5.92	+ 2.65
	24	13	8	39.6	W	...	...	...	...	...	-10 52 56.86	57.81	+ 0.95
	27	15	38	26.3	W	16	1	28.74	28.81	- 0.07	-19 27 33.67	34.49	+ 0.82
	28	16	33	2.4	CF	17	0	10.52	10.27	+ 0.25	-20 22 49.32	49.26	- 0.06
	29	17	29	3.6	IF	...	...	...	...	...	-20 3 4.02	4.47	+ 0.45

January 24, February 15, 17. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1864—cont.										
d	h	m	s		h	m	s	°	'	"
Apr.	12	5	9 35.6	IF	6 33 59.75	59.58	+ 0.17	+19 14 28.28	28.35	— 0.07
	13	5	57 40.1	CF	...	...	...	+17 18 27.32	22.91	+ 4.41
	14	6	43 35.5	W	8 16 8.71	8.41	+ 0.30	+14 36 15.03	13.98	+ 1.05
	16	8	10 39.0	IF	9 51 19.06	19.05	+ 0.01	+ 7 30 30.21	26.46	+ 3.75
	18	9	35 28.5	G	11 24 15.66	15.43	+ 0.23	— 0 53 55.64	59.04	+ 3.40
	19	10	18 51.4	W	12 11 42.17	42.09	+ 0.08	— 5 13 42.00	43.53	+ 1.53
	20	11	3 51.2	CF	13 0 45.89	45.74	+ 0.15	— 9 24 33.79	36.87	+ 3.08
	21	11	51 4.4	IF	...	...	...	—13 14 1.21	0.68	— 0.53
	22	12	40 56.6	G	14 46 0.42	0.43	— 0.01	—16 27 35.50	34.60	— 0.90
	23	13	33 41.2	W	15 42 39.64	40.27	— 0.63	—18 50 10.17	12.12	+ 1.95
	24	14	28 22.7	G	16 41 37.27	37.44	— 0.17	—20 7 59.72	61.21	+ 1.49
	25	15	24 40.5	CF	17 42 0.85	1.04	— 0.19	—20 11 10.46	13.44	+ 2.98
May	13	6	5 31.9	G	9 32 18.40	18.21	+ 0.19	+ 9 3 4.10	0.26	+ 3.84
	16	8	12 40.9	G	11 51 37.97	37.79	+ 0.18	— 3 26 31.61	35.36	+ 3.75
	17	8	56 41.6	IF	12 39 42.40	42.34	+ 0.06	— 7 41 5.10	5.02	— 0.08
	20	11	23 58.6	G	15 19 13.29	13.46	— 0.17	—17 59 22.37	24.20	+ 1.83
	21	12	19 2.8	IF	16 18 23.14	23.59	— 0.45	...	...	...
	23	14	14 22.4	CF	18 21 54.74	54.50	+ 0.24	—19 31 15.05	19.46	+ 4.41
	24	15	11 54.7	CF	19 23 33.07	33.09	— 0.02	—17 23 35.35	35.82	+ 0.47
	25	16	7 52.7	G	20 23 36.83	36.95	— 0.12	—14 6 25.91	27.55	+ 1.64
June	10	4	43 11.0	CF	...	...	...	+ 6 47 63.97	58.58	+ 5.39
	17	10	5 17.0	G	15 50 42.38	42.35	+ 0.03	—19 3 49.79	52.37	+ 2.58
	18	11	2 6.6	CF	16 51 37.83	37.89	— 0.06	—20 14 15.98	17.90	+ 1.92
	19	12	1 1.1	G	17 54 38.54	38.57	— 0.03	—20 4 16.80	18.55	+ 1.75
	20	13	0 28.1	CF	18 58 11.92	11.94	— 0.02	—18 29 10.72	9.80	— 0.92
	21	13	58 56.8	G	20 0 46.74	46.85	— 0.11	—15 34 43.08	45.16	+ 2.08
	22	14	55 27.1	CF	21 1 23.61	23.82	— 0.21	—11 36 10.48	15.29	+ 4.81
	24	16	42 7.5	CF	22 56 14.36	14.45	— 0.09	— 1 50 17.85	17.06	— 0.79
July	12	6	13 16.1	CF	13 36 37.28	37.24	+ 0.04	—11 53 28.96	31.82	+ 2.86
	13	7	0 52.6	G	14 28 18.13	18.19	— 0.06	—15 16 7.37	11.34	+ 3.97
	14	7	51 48.1	CF	15 23 17.46	17.61	— 0.15	—17 57 39.12	44.20	+ 5.08
	15	8	46 10.5	CF	...	...	...	—19 42 34.09	35.67	+ 1.58

May 24, June 22, 24. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1864—cont.							
d h m s		h m s	s	s	° ' "	"	"
July 16 9 43 37.4	G	17 23 19.38	19.58	— 0.20	—20 15 24.96	26.65	+ 1.69
17 10 43 2.2	G	18 26 50.50	50.50	0.00	—19 25 14.75	16.01	+ 1.26
18 11 42 54.2	G	19 30 48.87	48.77	+ 0.10	—17 9 45.75	46.79	+ 1.04
19 12 41 48.6	CF	20 33 49.49	49.80	— 0.31	—13 37 41.85	43.20	+ 1.35
20 13 38 54.5	G	21 35 1.33	1.64	— 0.31	— 9 7 18.13	20.28	+ 2.15
21 14 34 0.3	CF	22 34 12.74	12.78	— 0.04	— 4 2 9.53	10.14	+ 0.61
22 15 27 25.2	G	23 31 42.92	43.03	— 0.11	+ 1 13 27.35	27.37	— 0.02
23 16 19 45.1	CF	0 28 8.02	8.09	— 0.07	+ 6 17 29.76	29.73	+ 0.03
Aug. 9 4 54 45.2	CF	14 8 17.06	17.04	+ 0.02	—13 47 23.67	26.92	+ 3.25
10 5 42 57.3	G	15 0 33.58	33.45	+ 0.13	—16 42 50.76	53.45	+ 2.69
14 9 24 11.2	G	18 58 10.05	10.09	— 0.04	—18 22 36.11	36.51	+ 0.40
15 10 23 11.6	CF	20 1 16.69	16.64	+ 0.05	—15 33 22.28	23.56	+ 1.28
16 11 21 32.4	G	21 3 43.64	43.68	— 0.04	—11 33 33.23	35.86	+ 2.63
18 13 14 22.8	G	23 4 45.65	45.68	— 0.03	— 1 24 16.67	17.55	+ 0.88
19 14 9 3.3	CF	0 3 31.72	31.71	+ 0.01	+ 3 54 59.95	55.92	+ 4.03
21 15 56 46.8	CF	1 59 26.06	25.72	+ 0.34	+13 6 58.03	56.91	+ 1.12
22 16 50 18.4	G	2 57 3.08	3.14	— 0.06	+16 26 37.99	36.02	+ 1.97
Sept. 9 6 14 7.4	G	17 30 5.38	5.37	+ 0.01	—19 49 24.59	27.20	+ 2.61
13 10 0 31.9	CF	21 32 53.35	53.27	+ 0.08	— 9 16 35.01	33.50	— 1.51
14 10 56 36.1	G	22 33 3.30	3.35	— 0.05	— 4 15 8.31	9.78	+ 1.47
15 11 52 12.4	CF	23 32 45.28	45.31	— 0.03	+ 1 4 54.93	57.96	— 3.03
19 15 33 51.7	CF	3 30 47.17	47.13	+ 0.04	+17 41 26.65	23.14	+ 3.51
Oct. 4 2 25 46.4	G	15 19 40.66	40.89	— 0.23	...	...	...
5 3 16 24.8	G	16 14 24.01	24.11	+ 0.10	...	...	...
9 6 52 39.6	G	20 7 0.46	0.46	0.00	—14 56 40.16	39.12	— 1.04
10 7 47 17.2	CF	...	...	...	—11 11 41.22	42.68	+ 1.46
11 8 41 35.0	G	22 4 6.92	7.03	— 0.11	— 6 38 42.47	42.93	+ 0.46
14 11 25 24.7	CF	1 0 13.29	13.38	— 0.09	+ 8 35 6.00	4.25	+ 1.75
16 13 17 53.8	CF	3 0 53.86	53.87	— 0.01	+16 20 13.36	9.43	+ 3.93
Nov. 7 6 34 11.0	G	21 42 48.90	48.88	+ 0.02	— 8 20 56.67	56.05	— 0.62
8 7 26 22.9	CF	22 39 5.99	6.12	— 0.13	— 3 37 19.22	18.28	— 0.94
9 8 18 39.2	G	23 35 27.36	27.28	+ 0.08	+ 1 22 44.43	43.75	+ 0.68
11 10 5 41.4	CF	1 30 40.27	40.20	+ 0.07	+10 54 9.89	9.23	+ 0.66

July 18, August 18, 19, November 11. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1864—cont.							
d h m s		h m s	s	s	° ' "	"	"
Nov. 12 11 1 6.2	G	2 30 10.76	10.74	+ 0.02	+14 45 5.33	3.56	+ 1.77
16 14 43 18.5	JS	...	...	...	+18 49 54.70	55.69	- 0.99
17 15 34 30.4	G	7 24 2.61	2.71	- 0.10	+17 1 16.87	17.41	- 0.54
Dec. 5 5 23 16.3	G	22 22 6.17	6.27	- 0.10	- 5 11 58.35	60.70	+ 2.35
6 6 14 28.2	CF	23 17 22.97	22.95	+ 0.02	- 0 20 9.78	11.28	+ 1.50
7 7 5 39.5	G	0 12 39.31	39.31	0.00	+ 4 33 5.85	4.52	+ 1.33
8 7 57 32.3	CF	1 8 37.10	37.11	- 0.01	+ 9 10 15.76	16.17	- 0.41
9 8 50 36.9	G	2 5 47.00	46.91	+ 0.09	+13 13 60.12	59.62	+ 0.50
10 9 45 1.6	JS	3 4 17.23	17.14	+ 0.09	+16 27 52.86	52.76	+ 0.10
11 10 40 25.4	W	4 3 46.65	46.54	+ 0.11	+18 38 30.50	28.63	+ 1.87
12 11 35 58.2	W	5 3 25.13	25.00	+ 0.13	+19 37 39.98	37.14	+ 2.84
13 12 30 34.5	G	6 2 6.96	6.99	- 0.03	+19 24 8.73	8.78	- 0.05
14 13 23 14.6	CF	6 58 52.27	52.34	- 0.07	+18 3 50.88	47.78	+ 3.10
17 15 45 47.9	JS	9 33 38.70	38.86	- 0.16	+ 9 15 37.37	33.89	+ 3.48
18 16 28 59.4	CF	10 20 53.81	54.11	- 0.30	+ 5 24 1.30	0.88	+ 0.42
1865.							
Jan. 4 5 54 56.2	G	0 52 7.96	7.86	+ 0.10	+ 7 38 32.05	29.41	+ 2.64
5 6 46 55.1	JS	1 48 11.92	12.20	- 0.28	+11 52 5.21	5.62	- 0.41
6 7 39 45.6	G	2 45 7.68	7.59	+ 0.09	+15 20 57.75	57.27	+ 0.48
7 8 33 27.4	JS	3 42 54.84	54.99	- 0.15	+17 52 46.82	47.27	- 0.45
8 9 27 37.3	G	4 41 10.25	10.17	+ 0.08	+19 18 56.18	56.19	- 0.01
10 11 14 11.4	G	6 35 54.92	55.29	- 0.37	...	...	...
11 12 4 59.4	JS	...	...	...	+16 54 8.75	7.12	+ 1.63
12 12 53 30.2	G	8 23 23.18	23.07	+ 0.11	+14 13 39.18	37.46	+ 1.72
13 13 39 41.7	JS	9 13 38.85	38.87	- 0.02	+10 55 39.02	37.97	+ 1.05
14 14 23 54.0	G	10 1 54.96	54.74	+ 0.22	+ 7 11 60.70	58.86	+ 1.84
15 15 6 38.3	JS	...	...	...	+ 3 13 25.41	23.41	+ 2.00
17 16 30 31.7	JS	12 20 43.13	43.32	- 0.19	...	...	...
Feb. 4 7 24 1.3	CF	4 23 40.91	41.19	- 0.28	...	...	...
6 9 6 35.1	JS	...	...	...	+19 0 38.04	39.48	- 1.44
7 10 0 12.0	CF	7 12 6.96	7.01	- 0.05	+17 33 32.86	26.23	+ 6.63
8 10 48 51.1	G	8 4 50.56	50.56	0.00	+15 14 14.83	11.52	+ 3.31
9 11 35 26.6	CF	8 55 30.27	30.41	- 0.14	+12 13 23.56	18.59	+ 4.97

1864 December 10, 17, 18, 1865 January 7, 10, February 6, 7. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1865—cont.							
d h m s		h m s	s	s	° ' "	"	"
Feb. 10 12 20 10·4	G	9 44 18·03	17·94	+ 0·09	...	...	...
12 13 45 43·7	JS	11 17 58·49	58·60	— 0·11	+ 0 49 36·00	35·76	+ 0·24
13 14 27 41·6	CF	12 3 59·80	59·90	— 0·10	— 3 11 55·02	52·54	— 2·48
14 15 9 57·6	G	12 50 19·32	19·43	— 0·11	— 7 5 6·32	6·71	+ 0·39
15 15 53 10·9	CF	13 37 36·27	36·25	+ 0·02	...	...	...
Mar. 2 4 23 36·5	G	3 5 16·84	16·71	+ 0·13	...	...	...
3 5 18 51·9	G	4 4 37·90	37·74	+ 0·16	...	...	...
4 6 13 18·5	CF	5 3 9·99	9·79	+ 0·20	...	...	...
5 7 6 20·3	G	6 0 17·02	16·82	+ 0·20	...	...	...
6 7 57 27·5	JS	6 55 29·23	29·23	0·00	+17 55 5·78	2·95	+ 2·83
7 8 46 25·2	JS	7 48 31·50	31·59	— 0·09	+15 53 51·49	48·32	+ 3·17
8 9 33 14·1	CF	8 39 24·63	24·73	— 0·10	+13 8 51·01	47·25	+ 3·76
9 10 18 9·1	G	9 28 23·53	23·52	+ 0·01	+ 9 50 24·11	19·81	+ 4·30
10 11 1 34·7	CF	10 15 52·83	52·88	— 0·05	+ 6 8 36·09	31·83	+ 4·26
12 12 26 4·8	CF	11 48 29·93	29·93	0·00	— 1 46 49·08	48·55	— 0·53
14 13 51 14·1	CF	13 21 46·29	46·32	— 0·03	— 9 23 36·16	34·62	— 1·54
15 14 35 25·0	G	14 10 1·10	1·07	+ 0·03	—12 42 24·70	24·00	— 0·70
18 16 58 52·7	JS	16 45 41·99	42·01	— 0·02	—18 49 14·30	11·86	— 2·44
Apr. 2 5 52 13·7	CF	6 36 21·75	21·84	— 0·09	+18 16 26·65	25·26	+ 1·39
3 6 42 47·8	JS	7 31 0·66	0·62	+ 0·04	+16 31 33·77	30·57	+ 3·20
5 8 16 19·1	CF	9 12 40·50	40·50	0·00	+10 51 35·11	32·82	+ 2·29
6 9 0 6·2	G	10 0 31·32	31·16	+ 0·16	+ 7 17 57·24	55·10	+ 2·14
7 9 42 40·8	CF	10 47 9·44	9·43	+ 0·01	+ 3 27 62·00	58·54	+ 3·46
8 10 24 42·1	G	11 33 14·24	14·23	+ 0·01	— 0 29 26·45	29·32	+ 2·87
11 12 33 32·2	CF	13 54 15·18	15·16	+ 0·02	—11 39 14·25	18·70	+ 4·45
12 13 19 5·0	G	14 43 51·96	52·01	— 0·05	—14 37 25·92	25·39	— 0·53
16 16 38 18·0	G	18 19 23·92	24·17	— 0·25	—18 35 22·28	23·35	+ 1·07
17 17 30 54·3	CF	19 16 5·35	5·52	— 0·17	—17 4 16·03	17·53	+ 1·50
May 1 5 24 51·3	G	8 3 14·92	15·04	— 0·12	+15 2 8·20	5·43	+ 2·77
2 6 12 13·1	CF	8 54 40·99	41·08	— 0·09	+12 3 27·14	23·75	+ 3·39
3 6 57 9·4	G	9 43 41·22	41·27	— 0·05	+ 8 35 49·40	45·01	+ 4·39
4 7 40 21·2	CF	10 30 56·73	56·77	— 0·04	+ 4 49 31·67	28·25	+ 3·42
5 8 22 33·9	G	11 17 12·92	12·88	+ 0·04	+ 0 53 29·15	26·39	+ 2·76

March 14. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1865—cont.										
	d	h	m	s		h	m	s		
May	6	9	4	32.4	JS	12	3	14.84	14.99	— 0.15
	7	9	47	0.1	G	12	49	46.07	46.09	— 0.02
	8	10	30	34.8	CF	13	37	24.44	24.39	+ 0.05
	9	11	15	46.7	G	14	26	40.31	40.41	— 0.10
	10	12	2	55.2	CF	15	17	53.12	53.08	+ 0.04
	11	12	52	2.5	G	16	11	5.06	5.39	— 0.33
	30	4	51	24.9	G	9	24	3.07	3.12	— 0.05
	31	5	35	58.0	CF	...	...	...	...	...
June	1	6	18	55.2	JS	10	59	40.86	41.09	— 0.23
	2	7	1	5.4	CF	11	45	54.59	54.77	— 0.18
	3	7	43	17.4	G	12	32	10.04	10.05	— 0.01
	4	8	26	16.4	CF	13	19	12.69	12.92	— 0.23
	5	9	10	43.8	G	14	7	43.88	43.80	+ 0.08
	6	9	57	8.8	CF	14	58	13.12	13.40	— 0.28
	8	11	36	37.5	CF	16	45	51.24	51.29	— 0.05
	9	12	29	8.2	JS	17	42	27.15	27.28	— 0.13
	11	14	16	10.0	G	19	37	39.68	39.88	— 0.20
	14	16	52	47.6	CF	22	26	32.66	33.17	— 0.51
	15	17	43	55.6	G	...	...	...	...	...
	30	5	38	51.0	CF	12	13	50.29	50.56	— 0.27
July	1	6	21	22.8	G	13	0	25.61	25.58	+ 0.03
	3	7	50	7.6	CF	...	...	...	...	...
	7	11	13	2.2	CF	18	16	32.28	32.38	— 0.10
	11	14	48	59.2	CF	22	8	50.95	51.03	— 0.08
	12	15	41	8.9	JS	23	5	5.77	6.20	— 0.43
	13	16	32	59.5	G	0	1	1.42	1.52	— 0.10
	14	17	25	5.1	G	0	57	12.13	12.34	— 0.21
	15	18	17	59.3	JS	1	54	11.58	11.92	— 0.34
	29	4	59	44.1	JS	13	28	57.09	57.07	+ 0.02
Aug.	1	7	17	33.2	JS	15	58	58.49	58.57	— 0.08
	2	8	7	51.6	JS	16	53	21.64	21.76	— 0.12
	3	9	0	19.5	CF	17	49	54.76	54.99	— 0.23
	7	12	39	13.5	JS	21	45	10.88	11.24	— 0.36

May 10, July 3, 11. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1865—cont.							
d h m s		h m s	s	s	° ' "	"	"
Aug. 9 14 26 55.8	JS	23 41 3.98	4.08	— 0.10	+ 0 29 38.55	37.79	+ 0.76
12 17 8 37.0	G	2 35 1.49	1.40	+ 0.09	+ 13 34 33.53	32.17	+ 1.36
25 2 55 58.5	CF	13 11 18.07	18.33	— 0.26	— 7 49 7.73	8.63	+ 0.90
29 5 58 32.2	JS	16 30 8.01	8.19	— 0.18	— 18 2 24.11	25.54	+ 1.43
30 6 48 50.6	JS	17 24 31.18	31.25	— 0.07	— 18 43 58.46	61.15	+ 2.69
31 7 40 58.6	CF	18 20 44.33	44.59	— 0.26	— 18 25 13.87	15.56	+ 1.69
Sept. 1 8 34 31.8	CF	19 18 22.82	22.87	— 0.05	— 17 1 23.10	23.08	— 0.02
2 9 28 57.3	JS	20 16 53.90	54.02	— 0.12	— 14 31 59.80	55.65	— 4.15
5 12 13 40.2	JS	23 13 53.48	53.66	— 0.18	— 1 53 28.24	30.91	+ 2.67
6 13 8 50.8	CF	0 13 9.73	9.61	+ 0.12	+ 3 6 25.72	25.20	+ 0.52
8 15 0 34.7	CF	2 13 5.06	5.25	— 0.19	+ 12 4 41.59	39.13	+ 2.46
10 16 53 46.6	CF	4 14 28.69	28.91	— 0.22	+ 17 35 26.94	23.40	+ 3.54
11 17 49 45.1	JS	5 14 32.91	33.21	— 0.30	+ 18 36 43.13	37.73	+ 5.40
12 18 44 20.8	CF	6 13 14.12	14.51	— 0.39	+ 18 27 32.04	30.66	+ 1.38
23 2 20 46.9	JS	14 30 20.72	20.80	— 0.08	...	...	...
24 3 6 10.5	CF	15 19 48.36	48.51	— 0.15	— 15 35 25.12	26.91	+ 1.79
25 3 53 7.7	JS	16 10 49.80	49.98	— 0.18	— 17 25 26.07	25.79	— 0.28
27 5 31 48.0	CF	17 57 39.37	39.40	— 0.03	— 18 32 29.09	28.80	— 0.29
28 6 23 9.5	JS	18 53 5.92	6.12	— 0.20	— 17 38 33.52	34.67	+ 1.15
29 7 15 29.1	CF	19 49 30.59	30.57	+ 0.02	— 15 42 60.71	59.07	— 1.64
30 8 8 29.6	JS	20 46 36.42	36.51	— 0.09	— 12 47 32.63	30.78	— 1.85
Oct. 4 11 47 15.5	JS	0 41 44.43	44.70	— 0.27	+ 5 25 43.89	42.37	+ 1.52
5 12 44 31.8	CF	1 43 6.66	6.92	— 0.26	+ 10 2 31.53	30.32	+ 1.21
6 13 42 53.2	JS	2 45 34.28	34.46	— 0.18	+ 13 54 21.98	20.42	+ 1.56
8 15 40 18.7	JS	...	...	...	+ 18 15 64.88	59.52	+ 5.36
23 2 38 17.1	CF	16 46 10.31	10.40	— 0.09	...	...	...
27 5 59 11.9	CF	20 23 24.33	24.51	— 0.18	— 14 5 37.75	37.11	— 0.64
28 6 50 31.6	JS	21 18 49.02	49.06	— 0.04	— 10 45 38.03	38.28	+ 0.25
31 9 28 58.7	CF	0 9 31.84	31.92	— 0.08	+ 2 47 27.66	26.84	+ 0.82
Nov. 1 10 24 46.0	G	1 9 24.87	24.92	— 0.05	+ 7 35 16.56	16.38	+ 0.18
7 16 15 37.2	G	7 24 53.08	53.32	— 0.24	+ 16 42 45.21	47.07	— 1.86
15 22 16 27.0	G	13 58 14.55	14.75	— 0.20	...	...	...
24 4 45 59.6	CF	21 0 23.56	23.75	— 0.19	— 12 5 55.41	53.91	— 1.50

September 6, October 23. Definition exceedingly bad.

348 *R.A. and Dec. of the Moon and Planets, observed at*

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1805— <i>cont.</i>							
d h m s		h m s	s	s	° ' "	"	"
Nov. 25 5 36 7.9	JS	21 54 36.69	36.75	— 0.06	— 8 22 7.17	7.76	+ 0.59
26 6 26 30.2	CF	22 49 3.82	3.96	— 0.14	— 4 4 50.18	50.59	+ 0.41
27 7 17 41.6	G	23 44 20.18	20.18	0.00	+ 0 33 11.38	9.69	+ 1.69
28 8 10 22.3	G	0 41 6.04	5.97	+ 0.07	+ 5 16 10.81	8.75	+ 2.06
29 9 5 8.2	CF	1 39 57.49	57.53	— 0.04	+ 9 45 9.90	9.86	+ 0.04
Dec. 1 11 1 34.8	G	3 44 36.36	36.39	— 0.03	+ 16 35 47.87	46.82	+ 1.05
2 12 2 2.5	JS	4 49 10.60	10.38	+ 0.22	+ 18 19 6.52	6.78	— 0.26
4 14 0 20.7	CF	6 55 41.35	41.45	— 0.10	+ 17 44 7.06	4.66	+ 2.40
5 14 55 28.5	G	7 54 54.71	54.92	— 0.21	+ 15 40 36.25	35.68	+ 0.57
8 17 21 6.9	G	10 32 46.69	46.81	— 0.12	+ 5 30 10.91	8.59	+ 2.32
26 6 56 50.6	JS	...	...	...	+ 7 54 40.27	38.68	+ 1.59
28 8 46 58.1	G	3 16 4.58	4.69	— 0.11	+ 15 17 2.50	2.99	— 0.49
29 9 45 3.6	JS	4 18 16.17	16.10	+ 0.07	+ 17 35 11.43	11.90	— 0.47

R.A. and Dec. of Mercury.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862.							
d h m s		h m s	s	s	° ' "	"	"
July 21 22 42 16.0	G	6 41 46.57	46.35	+ 0.22	+ 20 23 28.45	27.03	+ 1.42
1863.							
Jan. 26 1 25 56.3	T	...	...	...	— 13 8 34.22	36.64	+ 2.42
30 1 18 54.7	CF	...	...	...	— 11 13 31.82	33.55	+ 1.73
1864.							
Oct. 24 23 7 52.0	G	13 24 1.39	1.45	— 0.06	— 7 6 27.20	29.40	+ 2.20

July 21. Second limb observed in R.A., and both limbs in Declination. In all other cases the centre of light was observed.

January 26, 30. Very bad definition.

Cape Mean Time of Transit of Centre.				Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1863—cont.										
d h m s					h m s	s	s	° ' "	"	"
July	11	3	9 0.8	CF	...	...	...	+10 51 31.63	29.00	+ 2.63
	13	3	8 31.3	CF	10 32 19.40	19.03	+ 0.37	+ 9 58 21.86	22.92	- 1.06
	16	3	7 31.6	CF	10 43 9.19	8.87	+ 0.32	+ 8 37 44.88	42.29	+ 2.59
	17	3	7 7.7	IF	...	...	...	+ 8 10 36.68	35.33	+ 1.35
	24	3	3 19.0	IF	11 10 28.34	27.96	+ 0.38	+ 4 58 58.56	57.43	+ 1.13
	31	2	57 36.4	CF	11 32 20.51	20.30	+ 0.21	+ 1 47 18.88	18.26	+ 0.62
Aug.	1	2	56 37.2	IF	11 35 17.87	17.60	+ 0.27	+ 1 20 10.63	11.01	- 0.38
	3	2	54 30.9	CF	11 41 4.30	4.04	+ 0.26	+ 0 26 15.93	15.77	+ 0.16
	4	2	53 23.6	G	11 43 53.51	53.06	+ 0.45	- 0 0 32.51	30.52	- 1.99
	5	2	52 13.2	IF	11 46 39.40	39.17	+ 0.23	- 0 27 8.37	8.11	- 0.26
	10	2	45 36.0	CF	...	...	...	- 2 37 38.09	34.76	- 3.23
	11	2	44 6.7	IF	...	...	...	- 3 3 3.86	1.40	- 2.46
	12	2	42 33.7	IF	12 4 34.41	33.98	+ 0.43	- 3 28 15.37	12.56	- 2.81
	14	2	39 16.9	CF	...	...	...	- 4 17 46.67	45.01	- 1.66
	15	2	37 32.7	IF	...	...	...	- 4 42 7.85	3.79	- 4.06
	17	2	33 51.9	IF	...	...	...	- 5 29 43.22	40.31	- 2.91
	18	2	31 55.1	CF	12 17 33.46	32.77	+ 0.69	- 5 52 58.66	55.38	- 3.28
	19	2	29 53.5	IF	12 19 28.07	27.55	+ 0.52	- 6 15 50.50	46.35	- 4.15
	25	2	15 58.7	IF	...	...	...	- 8 23 7.58	4.30	- 3.28
	28	2	7 44.1	IF	...	...	...	- 9 19 15.22	8.19	- 7.03
	31	1	58 30.8	IF	...	...	...	-10 8 67.06	58.61	- 8.45
Sept.	1	1	55 12.6	IF	...	...	...	-10 24 8.89	2.10	- 6.79
	3	1	48 13.7	IF	12 36 50.07	49.02	+ 1.05	-10 51 43.46	35.31	- 8.15
	4	1	44 32.8	IF	12 37 5.23	4.25	+ 0.98	-11 3 66.79	59.94	- 6.85
	5	1	40 44.4	CF	12 37 12.87	11.66	+ 1.21	-11 15 34.68	26.48	- 8.20
1864.										
Oct.	4	1	7 50.0	CF	...	...	...	-11 59 9.85	8.64	- 1.21
	5	1	8 35.4	CF	...	...	...	-12 26 51.47	50.80	- 0.67
	25	1	27 36.2	CF	...	...	...	-20 22 30.88	30.58	- 0.30
	26	1	28 46.0	JS	...	...	...	-20 41 23.97	22.39	- 1.58
	27	1	29 56.9	JS	...	...	...	-20 59 41.92	40.51	- 1.41
	29	1	32 22.4	JS	...	...	...	-21 34 33.68	33.01	- 0.67

1863 August 1, 5, 11, 14, 15, 1864 October 4, 25, 26, 29. Definition exceedingly bad.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1864—cont.							
d h m s		h m s	s	s	° ' "	"	"
Nov. 1 1 36 9.2	JS	...	...	...	-22 22 21.91	21.08	- 0.83
2 1 37 27.0	JS	...	...	...	-22 37 2.35	2.45	+ 0.10
3 1 38 45.8	JS	...	...	...	-22 51 5.71	5.32	- 0.39
4 1 40 5.8	JS	...	...	...	-23 4 29.62	29.19	- 0.43
5 1 41 26.5	JS	...	...	...	-23 17 14.45	13.58	- 0.87
8 1 45 34.1	JS	...	...	...	-23 51 23.88	23.27	- 0.61
1865.							
Jan. 20 3 2 52.7	CF	...	...	...	- 7 8 55.65	60.81	+ 5.16
23 3 3 38.4	CF	...	...	...	- 5 37 53.52	56.79	+ 3.27
27 3 4 22.2	CF	...	...	...	- 3 34 51.14	56.61	+ 5.47
30 3 4 44.3	CF	...	...	...	- 2 1 52.60	56.55	+ 3.95
31 3 4 49.5	JS	23 48 0.50	0.42	+ 0.08	- 1 30 46.21	52.02	+ 5.81
Feb. 1 3 4 54.0	CF	...	...	...	- 0 59 40.77	46.32	+ 5.55
2 3 4 57.3	CF	23 56 1.38	1.35	+ 0.03	- 0 28 32.53	40.32	+ 7.79
3 3 4 59.8	CF	...	...	...	+ 0 2 31.23	25.25	+ 5.98
Nov. 15 22 11 15.1	G	13 53 1.91	1.80	+ 0.11	- 9 53 16.68	16.20	- 0.48
24 22 18 52.6	G	...	...	...	-13 45 12.43	12.99	+ 0.56
26 22 20 45.4	G	...	...	...	-14 33 23.13	26.22	+ 3.09
30 22 24 44.8	G	15 5 42.17	42.05	+ 0.12	-16 5 27.36	26.99	- 0.37
Dec. 1 22 25 47.6	CF	...	...	...	-16 27 26.89	27.15	+ 0.26
10 22 36 6.3	G	15 56 31.03	31.01	+ 0.02	-19 24 48.21	46.68	- 1.53

January 20, 23, 27, 30, February 1, 3. Definition exceedingly bad.
The second limb observed in R.A. 1862 May 2 to 1862 July 18.
The first limb observed in R.A. 1863 July 2 to 1865 February 2.
The second limb observed in R.A. 1865 November 15 to 1865 December 10.
The north limb observed in Dec. 1862 May 2 to 1862 July 17.
The south limb observed in Dec. 1862 July 18 to 1862 September 1.
The north limb observed in Dec. 1863 June 30 to 1863 September 5.
The centre of light observed in Declination in all other cases.

R.A. and Dec. of Mars.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862.							
d h m s		h m s	s	s	° ' "	"	"
Aug. 21 15 14 11.6	T	...	...	...	+ 2 53 13.44	10.41	+ 3.03
22 15 10 50.5	T	...	...	...	+ 2 55 51.90	49.62	+ 2.28
23 15 7 26.5	T	...	...	...	+ 2 58 15.93	13.69	+ 2.24
24 15 3 59.2	T	...	...	...	+ 3 0 24.70	22.49	+ 2.21
25 15 0 28.9	T	...	...	...	+ 3 2 18.79	16.29	+ 2.50
26 14 56 55.5	T	...	...	...	+ 3 3 56.66	54.99	+ 1.67
29 14 45 56.0	T	...	...	...	+ 3 7 20.95	20.83	+ 0.12
31 14 38 20.4	T	...	...	...	+ 3 8 23.81	23.81	0.00
Sept. 1 14 34 27.7	T	...	...	...	+ 3 8 33.15	33.25	- 0.10
2 14 30 31.5	T	...	...	...	+ 3 8 27.74	28.30	- 0.56
3 14 26 32.2	T	...	...	...	+ 3 8 8.69	8.83	- 0.14
4 14 22 29.7	T	...	...	...	+ 3 7 34.81	35.27	- 0.46
5 14 18 23.8	T	...	...	...	+ 3 6 47.19	47.71	- 0.52
8 14 5 46.7	T	...	...	...	+ 3 3 0.71	2.45	- 1.74
12 13 48 11.9	T	...	...	...	+ 2 54 57.66	59.60	- 1.94
13 13 43 40.2	T	...	...	...	+ 2 52 27.28	28.42	- 1.14
18 13 20 17.7	T	...	...	...	+ 2 37 8.18	12.44	- 4.26
19 13 15 29.1	T	...	...	...	+ 2 33 37.43	41.38	- 3.95
22 13 0 47.9	T	...	...	...	+ 2 22 21.77	25.77	- 4.00
23 12 55 49.8	T	...	...	...	+ 2 18 23.25	29.22	- 5.97
24 12 50 49.9	T	...	...	...	+ 2 14 23.39	28.54	- 5.15
25 12 45 48.2	T	...	...	...	+ 2 10 19.89	24.67	- 4.78
Oct. 2 12 10 0.9	T	...	...	...	+ 1 41 39.23	46.00	- 6.77
3 12 4 51.6	T	...	...	...	+ 1 37 43.63	49.95	- 6.32
5 11 54 32.5	T	...	...	...	+ 1 30 7.59	14.03	- 6.44
6 11 49 23.3	T	...	...	...	+ 1 26 30.26	35.76	- 5.50
10 11 28 52.3	T	...	...	...	+ 1 13 18.21	25.62	- 7.41
12 11 18 42.8	T	...	...	...	+ 1 7 42.53	50.31	- 7.78
13 11 13 40.0	T	...	...	...	+ 1 5 12.55	19.89	- 7.34
15 11 3 39.3	T	...	...	...	+ 1 0 49.04	57.05	- 8.01
19 10 44 1.1	T	...	...	...	+ 0 54 49.37	58.21	- 8.84
21 10 34 25.6	T	...	...	...	+ 0 53 22.18	29.78	- 7.60

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862—cont.							
d h m s		h m s	s	s	° ' "	"	"
Oct. 22 10 29 41.4	T	...	...	...	+ 0 53 1.69	9.68	— 7.99
23 10 25 0.0	T	...	...	...	+ 0 52 57.71	66.52	— 8.81
24 10 20 21.5	T	...	...	...	+ 0 53 10.97	19.15	— 8.18
25 10 15 45.7	T	...	...	...	+ 0 53 41.35	49.13	— 7.78
27 10 6 42.8	T	...	...	...	+ 0 55 32.42	40.11	— 7.69
28 10 2 15.6	T	...	...	...	+ 0 56 53.02	61.14	— 8.12
30 9 53 30.7	T	...	...	...	+ 1 0 27.65	34.52	— 6.87
31 9 49 12.8	T	...	...	...	+ 1 2 39.69	46.56	— 6.87
Nov. 1 9 44 57.8	T	...	...	...	+ 1 5 7.79	15.39	— 7.60
2 9 40 45.9	T	...	...	...	+ 1 7 53.30	60.73	— 7.43
3 9 36 37.0	T	...	...	...	+ 1 10 54.16	62.43	— 8.27
1864.							
Nov. 26 12 12 17.0	W	...	...	...	+23 46 21.69	39.60	—17.91
Dec. 1 11 44 14.9	W	...	...	...	+23 41 59.49	80.00	—20.51
4 11 27 33.2	W	...	...	...	+23 38 8.13	27.90	—19.77
5 11 22 1.8	W	...	...	...	+23 36 41.52	60.55	—19.03
6 11 16 32.1	W	...	...	...	+23 35 9.45	28.99	—19.54
7 11 11 4.2	W	...	...	...	+23 33 35.17	53.72	—18.55
10 10 54 52.8	W	...	...	...	+23 28 33.75	52.79	—19.04
11 10 49 33.7	W	...	...	...	+23 26 49.92	69.16	—19.24
12 10 44 17.3	W	...	...	...	+23 25 5.04	24.92	—19.88
13 10 39 2.4	W	...	...	...	+23 23 21.56	40.46	—18.90
14 10 33 52.3	W	...	...	...	+23 21 41.96	56.49	—14.53
16 10 23 39.0	W	...	...	...	+23 18 14.03	31.87	—17.84
17 10 18 37.1	W	...	...	...	+23 16 33.44	52.45	—19.01
19 10 7 42.7	W	...	...	...	+23 13 25.46	42.14	—16.68
23 9 49 33.5	W	4 0 7.36	5.08	+ 2.28	+23 7 50.51	66.62	—16.11
December 1. Very bad definition ; limbs undulating violently.							
December 23. Both limbs observed in R.A.							
The observations of Declination were made by cutting off equal segments with a pair of parallel wires.							

R.A. and Dec. of Jupiter.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862. d h m s		h m s	s	s	° ' "	"	"
Mar. 24 11 21 6.2	T	...	...	...	+ 4 57 43.32	46.03	- 2.71
1863.							
Apr. 10 12 11 44.7	T	...	...	...	- 7 23 43.52	41.95	- 1.57
11 12 7 20.1	T	...	...	...	- 7 20 54.93	52.55	- 2.38
21 11 23 16.5	T	13 21 12.54	11.33	+ 1.21	- 6 53 3.20	1.68	- 1.52
23 11 14 29.1	T	13 20 16.86	15.67	+ 1.19	...	...	...
24 11 10 5.6	T	13 19 49.30	48.14	+ 1.16	...	...	...
May 23 9 5 30.7	T	...	...	...	- 5 46 12.66	10.52	- 2.14
24 9 1 20.6	T	...	...	...	- 5 44 59.47	58.33	- 1.14
25 8 57 11.1	T	...	...	...	- 5 43 51.65	50.25	- 1.40
July 8 6 4 51.3	G	13 9 26.21	25.15	+ 1.06	- 6 0 31.35	30.16	- 1.19
9 6 1 10.6	CF	13 9 41.35	40.40	+ 0.95	- 6 2 20.90	20.27	- 0.63
10 5 57 30.4	IF	13 9 57.09	56.24	+ 0.85	- 6 4 14.89	13.99	- 0.90
13 5 46 33.6	CF	13 10 48.27	47.28	+ 0.99	- 6 10 16.80	15.63	- 1.17
14 5 42 55.7	G	13 11 6.55	5.44	+ 1.11	- 6 12 24.02	22.95	- 1.07
24 5 7 8.5	IF	13 14 38.65	37.74	+ 0.91	...	...	...
25 5 3 36.6	CF	13 15 2.95	1.90	+ 1.05	- 6 39 15.38	14.62	- 0.76
Aug. 1 4 39 7.8	IF	13 17 5.91	4.99	+ 0.92	- 6 59 26.60	23.64	- 2.96
4 4 28 45.6	G	13 19 31.71	30.65	+ 1.06	- 7 8 41.18	41.27	+ 0.09
5 4 25 19.0	IF	13 20 0.94	0.12	+ 0.82	- 7 11 53.29	52.04	- 1.25
11 4 4 49.3	G	...	...	...	- 7 31 47.49	46.61	- 0.88
1864.							
Apr. 23 13 22 58.0	W	15 32 6.87	5.34	+ 1.53	-17 54 9.77	11.33	+ 1.56
Aug. 8 5 55 56.1	G	15 5 42.74	41.52	+ 1.22	-16 33 32.47	32.09	- 0.38
9 5 52 17.6	CF	15 5 60.17	58.93	+ 1.24	-16 34 56.78	58.07	+ 1.29
10 5 48 39.6	G	15 6 18.52	16.99	+ 1.53	-16 36 25.40	26.64	+ 1.24

1862 March 24. North limb observed.

1863 May 25, July 14. Very bad definition.

August 11. Exceedingly faint.

Both limbs were always observed in R.A.; and in Declination, except on 1862 March 24, either both limbs were observed or equal segments were cut off by a pair of parallel wires.

R.A. and Dec. of Saturn.

Cape Mean Time of Transit of Centre.	Observer.	Observed R.A.	Seconds of Tabular R.A.	Correction to Tabular R.A.	Observed Dec.	Seconds of Tabular Dec.	Correction to Tabular Dec.
1862. d h m s		h m s	s	s	° ' "	' "	' "
Mar. 24 11 11 42.7	T	...	...	...	+ 6 49 61.73	42.60	+19.13
1863.							
Apr. 20 10 10 43.3	T	...	...	...	+ 2 19 75.31	55.55	+19.76
21 10 6 33.8	T	12 4 15.16	16.03	- 0.87	+ 2 21 38.12	16.91	+21.21
24 9 54 6.5	T	12 3 35.67	36.50	- 0.83	+ 2 25 29.32	9.98	+19.34
July 8 4 58 57.4	G	12 3 19.92	20.45	- 0.53	+ 2 10 44.33	26.43	+17.90
9 4 55 14.5	CF	12 3 32.84	33.47	- 0.63	+ 2 8 66.44	48.85	+17.59
13 4 40 25.7	CF	12 4 27.96	28.59	- 0.63	+ 2 1 76.40	59.38	+17.02
16 4 29 22.5	CF	12 5 12.57	13.08	- 0.51	+ 1 56 50.20	32.97	+17.23
1865.							
Mar. 14 14 22 13.6	CF	13 52 50.50	50.94	- 0.44	- 8 41 8.64	24.97	+16.33
15 14 18 5.3	G	13 52 37.97	38.53	- 0.56	- 8 39 50.40	65.03	+14.63
Apr. 11 12 25 2.9	CF	13 45 44.22	44.51	- 0.29	- 7 58 13.28	23.05	+ 9.77

1862 March 24. North limb observed.

1865 March 14. Definition exceedingly bad.

Except on 1862 March 24, both limbs were observed in R.A.; and in Declination either both limbs were observed or equal segments were cut off by a pair of parallel wires.

ROYAL OBSERVATORY,

CAPE OF GOOD HOPE.

RIGHT ASCENSIONS

OF

THE MOON'S LIMB

AND

MOON-CULMINATING STARS,

1861—1865.

R.A. of Moon's Limb and Moon-Culminating Stars.

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1861.			h m s		1861— cont.			h m s	
Jan. 1	<i>c</i> Leonis ...	W	10 53 34.13	7	Jan. 28	<i>p</i> Leonis ...	CF	10 25 31.91	7
	Moon.....	W	11 3 7.51	II 7		Moon.....	OF	10 43 2.17	II 7
	<i>v</i> Leonis ...	W	11 29 51.40	7		<i>c</i> Leonis ...	CF	11 23 14.99	7
4	Moon.....	G	13 45 18.79	II 7		<i>v</i> Leonis ...	CF	11 29 52.18	7
16	Moon.....	CF	23 47 4.79	I 7	29	<i>c</i> Leonis ...	G	11 23 14.75	7
17	Moon.....	G	0 31 27.89	I 7		<i>v</i> Leonis ...	G	11 29 52.11	7
						Moon.....	G	11 37 28.70	II 7
19	β Arietis ...	G	1 46 59.37	3		η Virginis..	G	12 12 49.90	7
	α Arietis ...	G	1 59 21.87	7		q Virginis..	G	12 26 38.34	5
	Moon.....	G	2 4 50.60	I 7	31	α Virginis..	G	13 17 54.36	7
21	17 Tauri.....	CF	3 36 39.64	7		Moon.....	G	13 28 8.08	II 7
	Moon.....	CF	3 49 50.96	I 7		89 Virginis..	G	13 42 21.40	7
	δ Tauri.....	CF	4 14 57.59	7		B.A.C. 4700.	G	14 3 16.89	7
	ϵ Tauri.....	CF	4 20 32.43	7	Feb. 1	B.A.C. 4700.	G	14 3 16.83	7
23	β Tauri.....	CF	5 17 33.02	7		Moon.....	G	14 26 6.44	II 6
	ζ Tauri.....	CF	5 29 22.71	6		20 Libræ	G	14 55 57.94	7
	Moon.....	CF	5 47 35.53	I 7		1 Libræ	G	15 4 19.72	7
	η Geminorum	CF	6 6 31.65	7	2	20 Libræ	G	14 55 58.00	7
	μ Geminorum	CF	6 14 35.81	7		Moon.....	G	15 26 16.59	II 7
24	η Geminorum	G	6 6 31.97	7	14	Moon.....	W	0 58 57.49	I 7
	μ Geminorum	G	6 14 35.81	7	15	Moon.....	CF	1 45 34.29	I 7
	Moon.....	G	6 48 47.84	I 7	18	Moon.....	CF	4 21 23.81	I 7
	ν Geminorum	G	7 27 24.27	7		5 Tauri.....	CF	4 33 56.34	3
	3 Geminorum	G	7 36 51.38	5	19	Moon.....	G	5 19 6.31	I 7
25	ν Geminorum	CF	7 27 24.23	7		χ Orionis ...	G	5 46 11.47	7
	3 Geminorum	CF	7 36 51.46	7		1 Geminorum	G	5 55 42.81	7
	Moon.....	CF	7 49 28.54	I 7	20	χ Orionis ...	CF	5 46 11.79	3
	η Cancri ...	CF	8 24 42.82	7		1 Geminorum	CF	5 55 42.71	7
	γ Cancri ...	CF	8 35 17.19	6		Moon.....	CF	6 18 37.47	I 7
26	η Cancri ...	G	8 24 42.89	7		1 Geminorum	CF	6 35 25.13	7
	Moon.....	G	8 50 50.01	II 7					
	\circ Leonis ...	G	9 33 46.41	6					
	18 Leonis ...	G	9 38 56.59	7					

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1861— cont.			h m s		1861— cont.			h m s	
Feb. 21	ε Geminorum	G	6 35 25.33	7	Mar. 19	Moon.....	CF	5 53 23.00	I 7
	ζ Geminorum	G	6 55 54.49	7		η Geminorum	CF	6 6 31.17	7
	Moon.....	G	7 18 40.97	I 7		μ Geminorum	CF	6 14 35.18	7
	φ Geminorum	G	7 45 2.15	7	20	η Geminorum	CF	6 6 31.25	7
24	π Leonis ...	W	9 52 54.81	7		μ Geminorum	CF	6 14 35.12	7
	α Leonis ...	W	10 1 0.89	7		Moon.....	CF	6 51 29.99	I 7
	Moon.....	W	10 13 15.21	I 7		ν Geminorum	CF	7 27 23.78	7
	δ Leonis ...	W	10 53 25.60	7		κ Geminorum	CF	7 36 5.60	7
25	δ Leonis ...	CF	10 53 25.60	7	21	ν Geminorum	G	7 27 23.90	6
	ρ ^h Leonis ...	CF	11 6 41.40	7		κ Geminorum	G	7 36 5.64	7
	Moon.....	CF	11 11 45.58	II 7		Moon.....	G	7 49 30.27	I 7
	β Virginis..	CF	11 43 29.97	7		δ Cancri ...	G	8 36 49.67	7
26	ν Leonis ...	G	11 59 52.58	7	22	40 Cancri ...	CF	8 32 14.25	5
	β Virginis..	G	11 43 29.96	7		Moon.....	CF	8 46 45.09	I 7
	Moon.....	G	12 8 7.03	II 7	23	ο Leonis ...	G	9 33 46.67	7
	γ Virginis..	G	12 26 38.92	7		Moon.....	G	9 43 10.74	I 7
	28 Virginis..	G	12 34 48.95	7		α Leonis ...	G	10 1 0.88	5
27	γ Virginis..	CF	12 26 39.06	7	24	ρ Leonis ...	W	10 25 32.23	7
	28 Virginis..	CF	12 34 49.17	7		Moon.....	W	10 39 12.55	I 7
	Moon.....	CF	13 5 34.69	II 7		φ Leonis ...	W	11 9 38.67	7
	α Virginis..	CF	13 17 55.02	4		ε Leonis ...	W	11 23 15.70	7
	83 Virginis..	CF	13 37 2.59	7	26	f Virginis...	W	12 29 40.95	5
Mar. 1	α ² Libræ	CF	14 43 13.95	6		Moon.....	W	12 35 45.72	II 7
	20 Libræ	CF	14 55 58.89	7		α Virginis...	W	13 17 55.33	7
	Moon.....	CF	15 6 5.18	II 7		λ Virginis...	W	13 25 42.05	7
	ε Scorpii ...	CF	15 52 9.39	7	27	λ Virginis...	G	13 25 42.14	7
	β ¹ Scorpii ...	CF	15 57 23.51	7		Moon.....	G	13 35 45.21	II 7
2	δ Scorpii ...	G	15 52 9.23	7		B.A.C. 4722.	G	14 7 47.76	5
	β ¹ Scorpii ...	G	15 57 23.67	7		B.A.C. 4767.	G	14 16 56.42	7
	Moon.....	G	16 8 44.15	II 7	28	B.A.C. 4722.	W	14 7 47.77	7
	α Scorpii ...	G	16 20 55.24	7		B.A.C. 4767.	W	14 16 56.31	6
	τ Scorpii ...	G	16 27 16.05	7		Moon.....	W	14 38 16.62	II 7
18	Moon.....	G	4 56 3.73	I 7		20 Libræ	W	14 55 59.48	7
						α ¹ Libræ	W	15 4 21.11	7

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1861— cont.			h m s		1861— cont.			h m s	
Mar. 29	20 Libræ	G	14 55 59.59	7	Apr. 25	α ² Libræ	W	14 43 14.81	7
	ε ¹ Libræ	G	15 4 21.17	5		ε ¹ Libræ	W	15 4 21.58	7
	Moon.....	G	15 42 49.17	II 7		Moon.....	W	15 9 29.98	II 7
	ν Scorpil ...	G	16 3 58.09	7		β ¹ Scorpil ...	W	15 57 24.88	7
	σ Scorpil ...	G	16 12 47.46	7		ν Scorpil ...	W	16 3 58.51	7
30	ν Scorpil ...	W	16 3 58.16	7	27	θ Ophiuchi.	W	17 13 31.89	3
	σ Scorpil ...	W	16 12 47.47	7		δ Ophiuchi.	W	17 18 32.46	7
	Moon.....	W	16 47 56.93	II 7		Moon.....	W	17 23 3.58	II 7
	θ Ophiuchi.	W	17 13 31.20	7		δ Sagittarii	W	18 12 8.99	7
	δ Ophiuchi.	W	17 16 38.16	6		λ Sagittarii	W	18 19 26.56	7
Apr. 1	φ Sagittarii	W	18 37 0.63	7	28	δ Sagittarii	G	18 12 8.96	4
	σ Sagittarii	W	18 46 40.90	7		λ Sagittarii	G	18 19 26.70	7
	Moon.....	W	18 52 16.76	II 7		Moon.....	G	18 27 15.36	II 7
						σ Sagittarii	G	18 46 41.69	3
15	Moon.....	OF	5 33 50.36	I 7		π Sagittarii	G	19 1 32.49	7
16	μ Geminorum	W	6 14 34.66	7	May 17	10 Leonis ...	W	9 29 54.00	4
	Moon.....	W	6 30 39.57	I 7		σ Leonis ...	W	9 33 45.79	7
	δ Geminorum	W	7 11 51.03	7		Moon.....	W	9 51 38.59	I 7
						45 Leonis ...	W	10 20 20.61	7
18	γ Geminorum	G	7 38 6.32	6		ρ Leonis ...	W	10 25 31.73	7
	μ ² Cancri....	G	7 59 36.96	7					
	Moon.....	G	8 22 57.38	I 7	18	45 Leonis ...	G	10 20 20.51	7
	α Cancri....	G	8 50 55.36	5		ρ Leonis ...	G	10 25 31.86	7
						Moon.....	G	10 44 12.48	I 7
21	Moon.....	G	11 6 35.81	I 7		ε Leonis ...	G	11 23 15.38	5
						ν Leonis ...	G	11 29 52.58	7
22	ν Leonis....	CF	11 29 52.68	7					
	Moon.....	CF	12 2 29.81	I 7	19	ν Leonis ...	W	11 29 52.63	7
	χ Virginis...	CF	12 32 7.44	7		Moon.....	W	11 37 31.92	I 7
	ψ Virginis...	CF	12 47 10.51	7		η Virginis..	W	12 12 50.45	6
24	61 Virginis...	CF	13 11 11.70	7	22	89 Virginis ..	CF	13 42 22.80	7
	α Virginis...	CF	13 17 55.64	7		B.A.C. 4700.	CF	14 3 18.69	7
	Moon.....	CF	14 2 17.96	I 7		Moon.....	CF	14 33 16.29	I 7
	α ² Libræ	CF	14 43 14.96	7		20 Libræ ...	CF	14 56 0.20	7
	ε ¹ Libræ	CF	15 4 21.98	7		ε ¹ Libræ ...	CF	15 4 21.98	7

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1861— cont.			h m s		1861— cont.			h m s	
May 24	π Scorpii ...	CF	15 50 30.74		June 24	ρ Capricorni	CF	20 20 59.80	5
	β^1 Scorpii ...	CF	15 57 25.41			Moon.....	CF	20 27 24.85	II 7
	Moon.....	CF	16 48 53.49	II 7		θ Capricorni	CF	20 58 11.66	7
	θ Ophiuchi.	CF	17 13 32.57	7		ν Aquarii...	CF	21 2 4.91	4
	d Ophiuchi.	CF	17 18 32.99	7					
25	θ Ophiuchi.	G	17 13 32.46	7	28	16 Piscium ..	W	23 29 20.63	7
	d Ophiuchi.	G	17 18 33.17	7		λ Piscium ..	W	23 35 0.17	7
	Moon.....	G	17 55 41.92	II 7		Moon.....	W	23 41 25.03	II 7
	ϕ Sagittarii	G	18 37 2.35	7		ω Piscium ..	W	23 52 13.21	7
	σ Sagittarii	G	18 46 42.78	7	30	58 Piscium ..	W	0 39 49.35	7
30	θ Aquarii...	G	22 9 32.46	7		ϵ Piscium ..	W	0 55 46.44	7
	Moon.....	G	22 29 35.85	II 7		Moon.....	W	1 2 19.40	II 7
	β Piscium ..	G	22 56 50.44	7		η Piscium ..	W	1 24 5.34	7
	ϕ Aquarii...	G	23 7 9.67	7		β Arietis ..	W	1 47 0.36	7
June 15	Moon.....	W	11 19 23.39	I 7	July 12	Moon.....	CF	11 3 43.20	I 7
	ν Leonis ...	W	11 29 52.28	7					
	B.A.C. 4006	W	11 42 58.28	7	13	Moon.....	G	11 56 18.56	I 7
17	Moon.....	CF	13 7 44.16	I 3		χ Virginis...	G	12 32 7.03	6
	85 Virginis...	CF	13 38 9.53	7		ψ Virginis...	G	12 47 10.27	7
	89 Virginis...	CF	13 42 22.74	7	14	χ Virginis...	W	12 32 6.97	7
19	α^2 Libræ	CF	14 43 15.13	5		Moon.....	W	12 50 20.22	I 7
	20 Libræ	CF	14 56 0.28	7		α Virginis...	W	13 17 55.20	7
	Moon.....	CF	15 8 42.66	I 7		h Virginis...	W	13 25 41.89	7
	39 Libræ	CF	15 28 39.77	7	15	α Virginis...	CF	13 17 55.16	7
22	γ Sagittarii	W	17 56 13.14	7		h Virginis...	CF	13 25 41.82	7
	μ^1 Sagittarii	W	18 5 31.40	7		Moon.....	CF	13 46 50.42	I 7
	Moon.....	W	18 28 28.40	II 7		λ Virginis...	CF	14 11 38.81	7
	σ Sagittarii	W	18 46 43.23	7		56 Hydræ ...	CF	14 39 42.02	7
23	σ Sagittarii	W	18 46 43.15	7	16	λ Virginis...	G	14 11 38.73	7
	π Sagittarii	W	19 1 34.16	6		56 Hydræ ...	G	14 39 41.95	7
	Moon.....	W	19 30 12.07	II 7		Moon.....	G	14 46 28.46	I 7
	β Capricorni	W	20 13 15.75	7		ϵ^1 Libræ	G	15 4 21.74	5
	ρ Capricorni	W	20 20 59.81	7		ζ^1 Libræ	G	15 20 29.13	7

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1861— <i>cont.</i>			h m s		1861— <i>cont.</i>			h m s	
July 17	ϵ Libræ	CF	15 4 21.95	7	Aug. 16	ζ Sagittarii	CF	18 12 10.59	7
	ζ Libræ	CF	15 29 29.05	7		χ Sagittarii	CF	18 19 28.23	7
	Moon.....	CF	15 49 9.55	I 7		Moon.....	CF	18 38 43.87	I 7
	σ Scorpii ...	CF	16 12 48.98	7		ρ^1 Sagittarii	CF	19 13 41.14	7
	α Scorpii ...	CF	16 20 57.75	7		h Sagittarii	CF	19 28 19.57	7
18	σ Scorpii ...	G	16 12 48.87	7					
	α Scorpii ...	G	16 20 57.64	7	19	θ Capricorni	CF	20 58 12.63	7
	Moon.....	G	16 53 46.79	I 7		ϵ Capricorni	CF	21 14 35.03	7
	θ Ophiuchi.	G	17 13 33.08	7		Moon.....	CF	21 25 8.10	I 7
	δ Ophiuchi.	G	17 18 33.45	7		ϵ^1 Aquarii...	CF	21 59 0.21	7
						θ Aquarii...	CF	22 9 34.34	7
19	θ Ophiuchi.	CF	17 13 33.10	7					
	δ Ophiuchi.	CF	17 18 33.69	6	23	Moon.....	CF	0 35 3.41	II 6
	Moon.....	CF	17 58 22.63	I 7		ϵ Piscium...	CF	0 55 47.95	7
	ϕ Sagittarii	CF	18 37 3.00	6		ζ Piscium...	CF	1 6 32.49	7
	σ Sagittarii	CF	18 46 43.33	7					
25	β Piscium...	G	22 56 51.97	7	24	ζ Piscium...	G	1 6 32.41	7
	γ Piscium...	G	23 10 1.36	7		Moon.....	G	1 21 33.47	II 7
	Moon.....	G	23 22 11.80	II 7		α Arietis ...	G	1 59 24.68	7
	ϵ Piscium...	G	23 32 51.78	7					
	α Piscium...	G	23 54 45.53	7	26	α^1 Arietis ...	CF	2 41 52.63	7
						ϵ Arietis ...	CF	2 51 20.10	7
Aug. 12	λ Virginis...	CF	14 11 38.31	7		Moon.....	CF	2 59 27.36	II 7
	Moon.....	CF	14 28 28.98	I 7		γ^1 Tauri.....	CF	3 36 41.31	7
	α Libræ	CF	14 55 59.73	7		δ^1 Tauri.....	CF	3 40 57.91	7
	ϵ^1 Libræ	CF	15 4 21.56	6					
13	α Libræ	G	14 55 59.64	7	27	Moon.....	G	3 51 41.28	II 7
	ϵ^1 Libræ	G	15 4 21.40	6		ϵ Tauri.....	G	4 20 33.71	7
	Moon.....	G	15 29 55.36	I 7		α Tauri.....	G	4 28 0.21	7
	σ Scorpii ...	G	16 12 48.55	7					
	α Scorpii ...	G	16 20 57.25	7	28	α Tauri.....	G	4 28 0.28	7
						Moon.....	G	4 46 6.53	II 7
14	σ Scorpii ...	CF	16 12 48.51	6					
	α Scorpii ...	CF	16 20 57.28	7	Sept. 9	α^2 Libræ	CF	14 43 14.34	7
	Moon.....	CF	16 33 10.83	I 7		Moon.....	CF	15 10 3.90	I 7
	λ Ophiuchi.	CF	17 6 52.50	7		δ Scorpii ...	CF	15 52 10.48	6
	θ Ophiuchi.	CF	17 13 32.91	7		β Scorpii ...	CF	15 57 24.77	5

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1861— cont.			h m s		1861— cont.			h m s		
Sept. 13	♄ Sagittarii	CF	18 37 2.64	7	Oct. 11	♄ Sagittarii	G	19 13 49.60	7	
	♄ Sagittarii	CF	18 46 43.08	7		♄ Sagittarii	G	19 34 37.80	7	
	Moon.....	CF	19 19 42.01	I 7		Moon.....	G	19 58 39.22	I 7	
	♄ Sagittarii	CF	19 34 38.24	7		♄ Capricorni	G	20 20 59.81	7	
	♄ Sagittarii	CF	19 50 8.22	7		♄ Capricorni	G	20 31 33.99	7	
14	♄ Sagittarii	G	19 34 38.29	7	12	♄ Capricorni	W	20 20 59.91	7	
	♄ Sagittarii	G	19 50 8.16	7		♄ Capricorni	W	20 31 34.11	7	
	Moon.....	G	20 15 29.60	I 7		Moon.....	W	20 51 57.80	I 7	
	♄ Aquarii ...	G	20 40 13.39	7		♄ Aquarii ...	W	21 2 5.39	7	
	♄ Capricorni	G	20 58 12.33	7		♄ Aquarii ...	W	21 30 25.25	7	
15	♄ Capricorni	W	20 58 12.42	7	13	♄ Aquarii ...	W	21 2 5.45	7	
	Moon.....	W	21 7 44.69	I 7		Moon.....	W	21 41 51.18	I 7	
	♄ Aquarii ...	W	21 24 18.81	7		♄ Aquarii ...	W	22 14 32.92	7	
	♄ Aquarii ...	W	21 30 25.56	7		♄ Aquarii ...	W	22 18 14.98	7	
16	♄ Aquarii ...	CF	21 24 18.80	6	14	♄ Aquarii ...	G	22 14 32.89	7	
	♄ Aquarii ...	CF	21 30 25.60	7		♄ Aquarii ...	G	22 18 15.01	7	
	Moon.....	CF	21 57 2.96	I 7		Moon.....	G	22 29 15.78	I 7	
	♄ Aquarii ...	CF	22 9 34.37	7		♄ Piscium...	G	22 56 52.65	7	
	♄ Aquarii ...	CF	22 14 33.13	6		♄ Piscium...	G	23 10 2.19	7	
17	♄ Aquarii ...	G	22 9 34.18	7	15	♄ Piscium...	W	22 56 52.52	7	
	♄ Aquarii ...	G	22 14 32.90	7		♄ Piscium...	W	23 10 2.07	7	
	Moon.....	G	22 44 15.52	I 7		Moon.....	W	23 15 11.71	I 7	
	♄ Piscium...	G	23 10 2.14	7		♄ Piscium...	W	23 32 52.58	7	
	♄ Piscium...	G	23 19 52.93	7		♄ Piscium...	W	23 52 15.10	7	
21	♄ Piscium...	G	1 24 7.49	7	16	♄ Piscium...	G	23 32 52.64	6	
105	Piscium...	G	1 32 15.94	7		♄ Piscium...	G	23 52 15.06	7	
	Moon.....	G	1 51 40.41	II 6		Moon.....	G	0 0 37.04	I 7	
27	Arietis ...	G	2 23 16.21	7		♄ Piscium...	G	0 13 31.47	7	
	♄ Arietis ...	G	2 34 36.63	7		♄ Piscium...	G	0 18 36.80	7	
Oct. 8	♄ Scorpii ...	G	16 20 56.46	7	17	♄ Piscium...	W	0 13 31.42	7	
	Moon.....	G	16 54 57.88	I 7		♄ Piscium...	W	0 18 36.69	7	
10	Moon.....	W	19 1 15.66	I 7		Moon.....	W	0 46 24.35	I 7	
	♄ Sagittarii	W	19 34 37.82	6		♄ Piscium...	W	1 24 7.91	7	
						101	Piscium...	W	1 28 25.67	7

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1861— cont.			h m s		1861— cont.			h m s	
Oct. 19	β Arietis ...	W	1 47 3'10	7	Nov. 17	17 Tauri.....	W	3 36 43'46	7
	α Arietis ...	W	1 59 25'77	7		27 Tauri.....	W	3 40 59'93	7
	Moon.....	W	2 23 57'49	II 5		Moon.....	W	3 49 38'01	II 7
	ϵ Arietis ...	W	2 51 21'34	7		ν^1 Tauri.....	W	4 18 5'37	7
						τ Tauri.....	W	4 34 0'14	7
21	27 Tauri.....	G	3 40 59'39	7					
	A ¹ Tauri.....	G	3 56 34'06	7	18	τ Tauri.....	G	4 34 0'14	7
	Moon.....	G	4 6 51'65	II 7		Moon.....	G	4 34 18'18	II 7
	ν^2 Tauri.....	G	4 19 4'09	7		β Tauri.....	G	5 17 36'45	7
	τ Tauri.....	G	4 33 59'36	7		ζ Tauri.....	G	5 29 25'98	7
25	Moon.....	G	7 43 57'21	II 7	19	β Tauri.....	W	5 17 36'40	7
Nov. 7	Moon.....	G	19 37 21'53	I 7		ζ Tauri.....	W	5 29 25'90	7
8	Moon.....	W	20 33 30'65	I 7		Moon.....	W	5 37 55'15	II 7
10	30 Aquarii ...	G	21 56 1'53	3		η Geminorum	W	6 6 34'80	7
	θ Aquarii ...	G	22 9 33'86	7		μ Geminorum	W	6 14 38'65	7
	Moon.....	G	22 13 58'47	I 7	21	δ Geminorum	W	7 11 54'52	7
	η Aquarii ...	G	22 28 16'78	7		ϵ_3 Geminorum	W	7 19 34'45	7
11	Moon.....	W	23 0 26'40	I 7		Moon.....	W	7 26 26'65	II 7
13	35 Piscium...	W	0 7 53'88	7		ρ Geminorum	W	7 38 9'47	7
	45 Piscium...	W	0 18 36'51	5	22	μ^2 Cancri ...	W	7 59 39'63	7
	Moon.....	W	0 31 20'99	I 7		μ^2 Cancri ...	G	7 59 40'06	6
	δ Piscium...	W	0 41 33'12	7		Moon.....	G	8 19 9'05	II 7
14	δ Piscium...	W	0 41 33'04	7		δ Cancri ...	G	8 36 51'72	7
	ϵ Piscium...	W	0 55 48'61	7		α Cancri ...	G	8 50 57'29	7
	Moon.....	W	1 17 41'01	I 7	23	Moon.....	W	9 10 43'24	II 7
	β Arietis ...	W	1 47 3'16	7	24	Moon.....	G	10 1 39'42	II 7
	α Arietis ...	W	1 59 25'96	7	Dec. 5	Moon.....	CF	20 8 13'31	I 7
15	β Arietis ...	G	1 47 3'13	7	6	Moon.....	CF	21 3 39'73	I 7
	Moon.....	G	2 5 35'28	I 7	7	Moon.....	G	21 54 55'93	I 7
16	40 Arietis ...	G	2 40 50'04	7	8	Moon.....	W	22 43 10'04	I 7
	ϵ Arietis ...	G	2 51 21'75	7	9	Moon.....	G	23 29 35'27	I 7
	Moon.....	G	2 55 28'59	I 7	10	Moon.....	W	0 15 19'77	I 7
	17 Tauri.....	G	3 36 43'21	4		δ Piscium...	W	0 41 32'88	7
	27 Tauri.....	G	3 40 59'98	7		ϵ Piscium...	W	0 55 48'47	7

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1861— cont.			h m s		1861— cont.			h m s	
Dec. 11	ε Piscium...	G	0 55 48.53	7	Dec. 21	10 Leonis ...	G	9 29 57.36	7
	Moon.....	G	1 1 25.43	I 7		o Leonis ...	G	9 33 48.88	7
	ρ Piscium...	G	1 18 50.92	7		Moon.....	G	9 45 53.35	II 7
	η Piscium...	G	1 24 7.74	6		α Leonis ...	G	10 1 2.81	7
13	α Arietis ...	G	1 59 25.77	7	22	α Leonis ...	W	10 1 2.91	7
	η Arietis ...	G	2 5 6.72	7		ρ Leonis ...	W	10 25 34.17	7
	Moon.....	G	2 37 51.79	I 7		Moon.....	W	10 36 11.48	II 7
	ε Arietis ...	G	2 51 21.67	7	23	Moon.....	G	11 26 53.22	II 7
	δ Arietis ...	G	3 3 46.69	7					
14	ε Arietis ...	W	2 51 21.76	7	1862.				
	δ Arietis ...	W	3 3 46.75	7	Jan. 4	Moon.....	CF	22 21 25.00	I 7
	Moon.....	W	3 29 8.88	I 7	7	Moon.....	G	0 43 12.36	I 7
	η Tauri.....	W	3 39 19.47	7		η Piscium...	G	1 24 7.61	7
	A' Tauri.....	W	3 56 34.84	7	8	Moon.....	W	1 30 21.44	I 7
15	η Tauri.....	G	3 39 19.48	7		β Arietis ...	W	1 47 2.91	7
	A' Tauri.....	G	3 56 34.83	7		α Arietis ...	W	1 59 25.58	6
	Moon.....	G	4 22 27.00	I 7	9	β Arietis ...	G	1 47 2.81	7
	τ Tauri.....	G	4 34 0.39	7		α Arietis ...	G	1 59 25.56	7
	ε Tauri.....	G	4 54 53.51	7		Moon.....	G	2 18 52.67	I 7
16	τ Tauri.....	W	4 34 0.53	6		41 Arietis ...	G	2 41 53.97	7
	ε Tauri.....	W	4 54 53.49	7		ε Arietis ...	G	2 51 21.54	7
	Moon.....	W	5 17 10.95	I 7	10	ε Arietis ...	W	2 51 21.48	7
	χ' Orionis...	W	5 46 15.20	7		Moon.....	W	3 9 17.02	I 6
	η Geminorum	W	6 6 35.52	7		η Tauri.....	W	3 39 19.41	7
17	χ' Orionis ..	G	5 46 14.92	7	11	A' Tauri.....	G	3 56 34.73	7
	η Geminorum	G	6 6 35.26	7		Moon.....	G	4 1 44.24	I 7
	Moon.....	G	6 14 40.79	II 7		α Tauri.....	G	4 28 2.72	7
	ε Geminorum	G	6 35 28.93	7		τ Tauri.....	G	4 34 0.50	7
	ζ Geminorum	G	6 55 57.72	7	12	α Tauri.....	W	4 28 2.64	7
18	ζ Geminorum	W	6 55 57.83	7		τ Tauri.....	W	4 34 0.55	7
	Moon.....	W	7 9 25.12	II 7		Moon.....	W	4 55 57.96	I 7
	γ Geminorum	W	7 31 32.70	7		β Tauri.....	W	5 17 37.04	7
	α Geminorum	W	7 36 9.27	7		ζ Tauri.....	W	5 29 26.77	7
20	Moon.....	W	8 55 1.26	II 7					

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1862— cont.			<i>h m s</i>		1862— cont.			<i>h m s</i>	
Jan. 13	β Tauri.....	G	5 17 37.10	7	Jan. 22	α Virginis...	W	13 17 57.24	7
	ζ Tauri.....	G	5 29 26.73	7		h Virginis...	W	13 25 43.85	7
	Moon.....	G	5 51 17.18	I 6		Moon.....	W	13 53 3.87	II 7
	η Geminorum	G	6 6 35.78	7		α^2 Libræ ...	W	14 43 16.10	5
	μ Geminorum	G	6 14 39.64	7	23	Moon.....	G	14 52 38.83	II 7
14	η Geminorum	W	6 6 35.63	7	Feb. 8	A^1 Tauri.....	G	3 56 34.36	4
	μ Geminorum	W	6 14 39.44	7		v^1 Tauri.....	G	4 18 5.32	7
	Moon.....	W	6 46 45.24	I 7		Moon.....	G	4 33 12.99	I 7
	δ Geminorum	W	7 11 55.66	7		ϵ Tauri.....	G	4 54 53.24	7
	ϵ Geminorum	W	7 17 12.16	7		β Tauri.....	G	5 17 36.77	7
15	Moon.....	G	7 41 30.65	I 7	9	ϵ Tauri.....	W	4 54 53.27	7
	μ^2 Cancri ...	G	7 59 41.19	7		β Tauri.....	W	5 17 36.80	7
	ζ Cancri ...	G	8 4 20.50	7		Moon.....	W	5 27 44.96	I 7
16	μ^2 Cancri ...	W	7 59 41.34	7		η Geminorum	W	6 6 35.56	7
	ζ Cancri ...	W	8 4 20.61	7		μ Geminorum	W	6 14 39.41	7
	Moon.....	W	8 37 13.88	II 7	10	μ Geminorum	G	6 14 39.41	7
	α Cancri ...	W	8 50 58.96	7		Moon.....	G	6 22 55.52	I 7
	κ Cancri ...	W	9 0 18.98	7		ζ Geminorum	G	6 55 57.99	7
17	Moon.....	G	9 29 23.52	II 6		λ Geminorum	G	7 10 12.45	7
	α Leonis ...	G	10 1 3.65	7	11	ζ Geminorum	W	6 55 58.30	7
18	Moon.....	W	10 20 36.36	II 5		λ Geminorum	W	7 10 12.50	7
	p^1 Leonis ...	W	10 54 49.85	7		Moon.....	W	7 17 59.15	I 7
	p^2 Leonis ...	W	11 6 44.17	7		v Geminorum	W	7 27 28.03	7
19	p^1 Leonis ..	G	10 54 49.61	7	14	κ Geminorum	W	7 36 9.72	7
	Moon.....	G	11 11 36.43	II 7		B.A.C. 3336	G	9 38 55.94	7
	v Leonis ...	G	11 29 55.07	7		π Leonis ...	G	9 52 57.99	7
	β Virginis...	G	11 43 32.56	7		Moon.....	G	10 0 30.56	II 7
21	χ Virginis...	G	12 32 9.45	7		30 Sextantis	G	10 23 16.72	7
	ψ Virginis...	G	12 47 12.52	7		33 Sextantis	G	10 34 25.61	7
	Moon.....	G	12 56 50.16	II 7	15	33 Sextantis	W	10 34 25.82	7
	α Virginis...	G	13 17 57.17	7		Moon.....	W	10 52 46.96	II 7
	h Virginis...	G	13 25 43.66	7		ϕ Leonis ...	W	11 9 41.41	7
						v Leonis ...	W	11 29 55.65	7

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1862— cont.			h m s		1862— cont.			h m s	
Feb. 16	♂ Leonis ...	G	11 9 41.50	7	Mar. 19	♂ Libræ.....	W	15 4 24.41	7
	ν Leonis ...	G	11 29 55.70	7		Moon.....	W	15 15 48.11	II 7
	Moon.....	G	11 45 31.11	II 7		β ¹ Scorpii ...	W	15 57 27.65	7
	η Virginis...	G	12 12 53.35	7		σ Scorpii ...	W	16 12 51.07	6
	γ Virginis...	G	12 34 42.56	7					
Mar. 10	μ Geminorum	W	6 14 38.98	7	20	β ¹ Scorpii ...	W	15 57 27.70	7
	γ Geminorum	W	6 29 46.65	7		σ Scorpii ...	W	16 12 51.00	7
	Moon.....	W	6 53 14.68	I 7		Moon.....	W	16 20 18.86	I 7
						α Ophiuchi(1st*)	W	17 6 54.29	7
11	δ Geminorum	G	7 11 55.41	7		θ Ophiuchi..	W	17 13 34.56	7
	κ Geminorum	G	7 36 9.36	7					
	Moon.....	G	7 47 11.69	7	21	α Ophiuchi(1st*)	W	17 6 54.27	7
	γ Cancri ...	G	8 35 20.77	6		θ Ophiuchi..	W	17 13 34.62	7
						Moon.....	W	17 25 9.50	II 6
12	η Cancri ...	W	8 24 46.34	7		δ Sagittarii	W	18 12 11.68	7
	γ Cancri ...	W	8 35 20.69	7		λ Sagittarii	W	18 19 29.26	7
	Moon.....	W	8 40 31.72	I 7					
	α Cancri ...	W	8 50 59.25	7	22	δ Sagittarii	W	18 12 11.76	7
	κ Cancri ...	W	9 0 19.10	5		λ Sagittarii	W	18 19 29.37	7
						Moon.....	W	18 28 28.66	II 7
13	α Cancri ...	G	8 50 58.99	7		ε ² Sagittarii	W	18 49 31.57	7
	κ Cancri ...	G	9 0 18.92	7		π Sagittarii	W	19 1 34.97	7
	Moon....	G	9 33 20.64	I 7					
	π Leonis ...	G	9 52 58.11	7	Apr. 7	δ Geminorum	G	7 11 54.83	7
	α Leonis ...	G	10 1 3.98	7		Moon.....	G	7 23 58.48	I 7
						κ Geminorum	G	7 36 9.01	4
14	π Leonis ...	W	9 52 58.08	7		μ ² Cancri ...	G	7 59 40.78	7
	α Leonis ...	W	10 1 4.06	7					
	Moon.....	W	10 26 4.23	I 7	8	κ Geminorum	W	7 36 9.16	7
	p ¹ Leonis ...	W	10 54 50.20	7		μ ² Cancri ...	W	7 59 40.89	7
	φ Leonis ...	W	11 9 41.82	7		Moon.....	W	8 16 22.70	I 7
						δ Cancri ...	W	8 36 53.00	7
16	13 Virginis...	W	12 11 38.82	7		α Cancri ...	W	8 50 58.90	7
	Moon.....	W	12 16 23.78	II 7					
	θ Virginis...	W	13 2 51.34	7	9	δ Cancri ...	G	8 36 52.79	7
						α Cancri ...	G	8 50 58.78	7
18	Moon.....	W	14 13 13.52	II 7		Moon.....	G	9 8 12.68	I 7
	20 Libræ.....	W	14 56 2.94	7		18 Leonis ...	G	9 38 59.82	7
	♂ Libræ.....	W	15 4 24.57	7		π Leonis ...	G	9 52 57.75	7

368 *R.A. of Moon's Limb and Moon-Cul. Stars, observed*

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1862— cont.			h m s		1862— cont.			h m s	
Apr. 10	18 Leonis ...	W	9 38 59.73	7	May 9	ρ^1 Leonis ...	W	10 54 49.79	7
	π Leonis ...	W	9 52 57.83	7		ϕ Leonis ...	W	11 9 41.39	7
	Moon.....	W	9 59 55.78	I 7		Moon.....	W	11 19 23.87	I 7
	ρ Leonis ...	W	10 25 35.39	7		B.A.C. 4006.	W	11 44 1.82	7
	34 Sextantis.	W	10 35 32.61	7		10 Virginis..	W	12 2 39.94	7
12	ϕ Leonis ...	W	11 9 41.74	7	10	10 Virginis..	G	12 2 39.63	7
	ν Leonis ...	W	11 29 56.02	6		Moon.....	G	12 13 8.53	I 7
	Moon.....	W	11 46 3.00	I 7		χ Virginis..	G	12 32 10.50	7
	q Virginis..	W	12 26 42.69	7		ψ Virginis..	G	12 47 13.72	7
	χ Virginis..	W	12 32 10.85	5	11	χ Virginis..	W	12 32 10.62	7
13	χ Virginis..	G	12 32 10.64	7		ψ Virginis..	W	12 47 13.87	7
	Moon.....	G	12 42 18.93	I 7		Moon.....	W	13 10 10.58	I 7
	53 Virginis..	G	13 4 46.48	7		86 Virginis..	W	13 38 38.64	7
	α Virginis..	G	13 17 58.80	7		κ Virginis..	W	14 5 35.71	6
14	53 Virginis..	W	13 4 46.53	7	12	κ Virginis..	G	14 5 35.81	7
	α Virginis..	W	13 17 58.78	7		Moon.....	G	14 11 18.10	I 7
	Moon.....	W	13 44 13.79	II 6		α^2 Libræ	G	14 43 18.61	7
	μ Libræ	W	14 41 48.80	7		ι^1 Libræ	G	15 4 25.43	7
19	Moon.....	G	19 9 35.38	II 7	13	Moon.....	W	15 19 5.64	II 7
	h^2 Sagittarii.	G	19 28 20.99	7		σ Scorpii ...	W	16 12 52.27	7
	f Sagittarii.	G	19 38 20.96	7		α Scorpii ...	W	16 21 1.08	7
20	f Sagittarii.	W	19 38 20.91	7	15	d Ophiuchi.	W	17 18 36.76	7
	Moon.....	W	20 8 23.16	II 7		Moon.....	W	17 36 21.26	II 7
	ρ Capricorni	W	20 21 1.28	7		δ Sagittarii.	W	18 12 13.35	7
	ϵ Aquarii...	W	20 40 14.13	5		λ Sagittarii.	W	18 19 30.94	7
21	ϵ Aquarii...	G	20 40 14.15	7	16	δ Sagittarii.	G	18 12 13.47	3
	Moon.....	G	21 3 4.77	II 7		λ Sagittarii.	G	18 19 31.02	7
	β Aquarii...	G	21 24 19.17	7		Moon.....	G	18 43 6.65	II 7
22	β Aquarii...	G	21 24 19.20	7		π Sagittarii.	G	19 1 36.82	7
	Moon.....	G	21 54 21.31	II 7		ρ^1 Sagittarii.	G	19 13 43.36	4
May 8	π Leonis ...	G	9 52 57.47	7	17	π Sagittarii.	W	19 1 36.54	7
	A Leonis ...	G	10 0 37.07	7		ρ^1 Sagittarii.	W	19 13 43.46	7
	Moon.....	G	10 27 50.36	I 7		Moon.....	W	19 45 45.52	II 7
	ρ^1 Leonis ...	G	10 54 49.89	7		ρ Capricorni	W	20 21 2.14	7
	ϕ Leonis ...	G	11 9 41.51	7		τ^2 Capricorni	W	20 31 36.01	7

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1862— cont.			h m s		1862— cont.			h m s	
May 18	ρ Capricorni	G	20 21 2.13	7	July 2	ρ Leonis ...	G	10 25 34.49	7
	τ^2 Capricorni	G	20 31 36.01	7		Moon.....	G	10 42 38.33	I 7
	Moon.....	G	20 43 40.33	II 7		ψ Virginis...	W	12 47 13.40	3
	θ Capricorni	G	20 58 13.85	7	5	53 Virginis...	W	13 4 46.14	5
	ι Capricorni	G	21 14 36.07	7		Moon.....	W	13 17 38.67	I 7
19	Moon.....	W	21 37 17.60	II 6		89 Virginis...	W	13 42 25.91	7
	θ Aquarii...	W	22 9 35.21	7		B.A.C. 4700	W	14 3 21.96	4
	γ Aquarii...	W	22 14 33.88	7	6	89 Virginis...	G	13 42 25.96	7
20	θ Aquarii...	G	22 9 35.26	6		B.A.C. 4700	G	14 3 21.69	7
	γ Aquarii...	G	22 14 33.84	5		Moon.....	G	14 15 34.13	I 7
	Moon.....	G	22 27 36.85	II 7		20 Libræ ...	G	14 56 3.83	7
	β Piscium ..	G	22 56 53.22	7		ι^1 Libræ ...	G	15 4 25.51	7
June 3	Moon.....	G	9 19 45.13	I 7	7	20 Libræ ...	W	14 56 3.88	7
	α Leonis ...	G	10 1 3.23	6		ι^1 Libræ ...	W	15 4 25.39	7
4	α Leonis ...	G	10 1 3.14	7		Moon.....	W	15 17 45.79	I 7
	Moon.....	G	10 8 57.02	I 7		δ Scorpii ...	W	15 52 14.95	7
	55 Leonis ...	G	10 48 38.78	7		β^1 Scorpii ...	W	15 57 29.13	7
	d Leonis ...	G	10 53 28.47	7	8	δ Scorpii ...	G	15 52 14.76	7
5	55 Leonis ...	W	10 48 38.69	7		β^1 Scorpii ...	G	15 57 29.11	7
	d Leonis ...	W	10 53 28.41	6		Moon.....	G	16 23 42.63	I 7
	Moon.....	W	10 58 32.24	I 7		θ Ophiuchi.	G	17 13 36.74	7
	v Leonis ...	W	11 29 55.57	7	9	d Ophiuchi.	G	17 18 37.56	7
6	v Leonis ...	G	11 29 55.52	7		θ Ophiuchi.	W	17 13 36.79	7
	Moon.....	G	11 49 34.03	I 7		Moon.....	W	17 31 41.85	I 7
	η Virginis...	G	12 26 42.38	7	10	μ^1 Sagittarii	W	18 5 35.20	6
	χ Virginis...	G	12 32 10.39	7		λ Sagittarii	W	18 19 31.97	7
12	θ Ophiuchi.	G	17 13 36.52	7		λ Sagittarii	G	18 19 31.86	7
	μ^1 Sagittarii	G	18 5 35.05	7		Moon.....	G	18 39 10.20	I 7
	Moon.....	G	18 9 7.03	II 7		π Sagittarii	G	19 1 37.82	7
	ϕ Sagittarii	G	18 37 6.35	7	12	ρ^1 Sagittarii	G	19 13 44.47	7
	σ Sagittarii	G	18 46 46.71	7		ρ Capricorni	G	20 21 3.69	6
19	45 Piscium...	G	0 18 37.35	7		τ^2 Capricorni	G	20 31 37.43	7
	Moon.....	G	0 34 7.48	II 7		Moon.....	G	20 46 42.94	II 7
						v Aquarii...	G	21 2 8.58	7
						ξ Aquarii...	G	21 30 28.13	7

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1862— cont.			h m s		1862— cont.			h m s .	
July 17	ϵ Piscium...	W	0 55 50.08	7	Sept. 8	β Piscium...	G	22 56 55.72	7
	Moon.....	W	1 3 54.25	II 7		γ Piscium...	G	23 10 5.16	7
	94 Piscium...	W	1 19 17.80	7		Moon.....	G	23 30 33.58	II 7
	η Piscium...	W	1 24 9.14	7		ω Piscium...	G	23 52 17.98	7
18	94 Piscium...	G	1 19 17.82	5		δ Piscium...	G	0 13 34.43	7
	η Piscium...	G	1 24 9.20	7	9	ω Piscium...	CF	23 52 18.01	7
	Moon.....	G	1 52 55.28	II 7		δ Piscium...	CF	0 13 34.27	7
	η Arietis ...	G	2 5 7.74	5		Moon.....	CF	0 20 46.72	II 7
	θ Arietis ...	G	2 10 36.08	7		δ Piscium...	CF	0 41 36.02	7
Aug. 3	5 Libræ ...	G	14 38 24.76	7	10	δ Piscium...	G	0 41 35.89	6
	α^2 Libræ ...	G	14 43 18.27	7		ϵ Piscium...	G	0 55 51.46	7
	Moon.....	G	14 55 30.53	I 7		Moon.....	G	1.10 54.10	II 7
	ζ^1 Libræ ...	G	15 20 32.24	7		η Piscium...	G	1 24 10.60	7
	39 Libræ ...	G	15 28 43.07	7		β Arietis ...	G	1 47 5.88	7
6	δ Ophiuchi.	W	17 18 37.34	7	11	η Piscium...	CF	1 24 10.66	7
	γ^1 Sagittarii	W	17 56 17.19	5		β Arietis ...	CF	1 47 5.87	7
	Moon.....	W	18 9 17.66	I 7		Moon.....	CF	2 1 28.69	II 6
	ξ^2 Sagittarii	W	18 49 34.36	7		ν Arietis ...	CF	2 31 3.70	7
	π Sagittarii	W	19 1 38.03	7		π Arietis ...	CF	2 41 40.19	7
11	Moon.....	G	23 2 48.41	II 7	12	π Arietis ...	G	2 41 40.14	7
	θ Piscium...	G	23 21 2.21	5		Moon.....	G	2 52 51.51	II 7
	ι Piscium...	G	23 32 55.27	7		17 Tauri.....	G	3 36 45.57	7
30	Moon.....	G	14 37 50.10	I 7	13	17 Tauri.....	CF	3 36 45.45	7
Sept. 2	δ Ophiuchi.	G	17 18 36.91	7		27 Tauri.....	CF	3 41 2.19	7
	Moon.....	G	17 46 45.78	I 7		Moon.....	CF	3 45 6.98	II 5
	μ^1 Sagittarii	G	18 5 34.93	7		ϵ Tauri.....	CF	4 20 37.76	7
	λ Sagittarii	G	18 19 31.68	7		α Tauri.....	CF	4 28 4.25	7
3	λ Sagittarii	CF	18 19 31.75	4	14	ϵ Tauri.....	G	4 20 37.63	7
	Moon.....	CF	18 50 10.54	I 7		α Tauri.....	G	4 28 4.34	7
	π Sagittarii	CF	19 1 37.78	7		Moon.....	G	4 38 3.87	II 7
	ρ^1 Sagittarii	CF	19 13 44.46	7		ι Tauri.....	G	4 54 54.99	7
4	π Sagittarii	G	19 1 37.73	7	Oct. 1	π Sagittarii	G	19 1 37.24	7
	ρ^1 Sagittarii	G	19 13 44.25	7		Moon.....	G	19 32 22.07	I 5
	Moon.....	G	19 51 17.15	I 7					
	ρ Capricorni	G	20 21 3.77	7					

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1862— cont.					1862— cont.				
Oct. 2	α^2 Capricorni	CF	h m s 20 10 27.90		Nov. 7	17 Tauri.....	CF	h m s 3 36 46.73	7
	ρ Capricorni	CF	20 21 3.58	7		27 Tauri.....	CF	3 41 3.23	7
	Moon.....	CF	20 30 20.61	I 7		Moon.....	CF	3 56 45.31	II 5
	ϵ Aquarii...	CF	20 41 16.45	7		ϵ Tauri.....	CF	4 20 39.08	6
	ν Aquarii..	CF	21 2 8.78	7		τ Tauri.....	CF	4 34 3.52	7
3	ϵ Aquarii...	G	20 40 16.63	7	9	Moon.....	G	5 43 4.10	II 7
	ν Aquarii...	G	21 2 8.88	7		η Geminorum	G	6 6 38.10	7
	Moon.....	G	21 25 15.37	I 7		μ Geminorum	G	6 14 41.94	7
	ϕ Aquarii...	G	21 56 14.97	7	27	β Aquarii...	G	21 24 21.04	7
	θ Aquarii...	G	22 9 37.46	7		Moon.....	G	21 44 30.38	I 7
5	Moon.....	G	23 8 23.25	I 7		γ Aquarii...	G	22 14 35.45	7
	ι Piscium ..	G	23 32 55.75	7	28	Moon... ..	G	22 36 23.23	I 7
	ω Piscium ..	G	23 52 18.17	7		γ Piscium ..	G	23 10 4.78	7
13	χ^1 Orionis ...	CF	5 46 17.21	7		κ Piscium ..	G	23 19 55.59	7
	Moon.....	CF	6 2 53.17	II 6	29	γ Piscium ..	W	23 10 4.75	7
	μ Geminorum	CF	6 14 41.20	7		κ Piscium ..	W	23 19 55.56	7
	γ Geminorum	CF	6 29 48.47	7		Moon.....	W	23 26 15.41	I 7
28	Moon.....	G	19 13 26.12	I 7		26 Piscium ..	W	23 48 8.45	7
31	Moon.....	CF	22 1 34.57	I 7	30	ω Piscium ..	W	23 52 17.84	7
	ζ Aquarii...	CF	22 21 47.32	7		Moon.....	W	0 15 11.16	I 7
Nov. 1	ζ Aquarii...	G	22 21 47.58	7		δ Piscium ..	W	0 41 36.14	7
	η Aquarii...	G	22 28 19.98	7		ϵ Piscium ..	W	0 55 51.67	7
	Moon	G	22 52 6.11	I 7	Dec. 1	δ Piscium ..	G	0 41 36.12	7
	γ Piscium ..	G	23 10 5.01	7		ϵ Piscium ..	G	0 55 51.54	7
	κ Piscium ..	G	23 19 55.86	7		Moon.....	G	1 4 6.31	I 7
2	γ Piscium ..	G	23 10 5.06	7		η Piscium ..	G	1 24 11.26	7
	κ Piscium ..	G	23 19 55.85	7		B.A.C. 477 ..	G	1 28 32.12	7
	Moon... ..	G	23 41 24.96	I 7	2	η Piscium ..	CF	1 24 11.11	6
	ω Piscium ..	G	23 52 18.04	7		Moon.....	CF	1 53 43.86	I 6
6	ϵ Arietis ...	G	2 51 25.11	7	4	ζ Arietis ...	CF	3 7 4.21	7
	Moon.....	G	3 4 6.92	II 7		Moon.....	CF	3 36 28.02	I 7
	17 Tauri.. ...	G	3 36 46.85	7		Δ^1 Tauri.....	CF	3 56 38.33	7
	27 Tauri.....	G	3 41 3.21	7		ϵ Tauri.....	CF	4 20 39.55	7

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1862— cont.			h m s		1862— cont.			h m s	
Dec. 5	A' Tauri.....	G	3 56 38.41	7	Dec. 31	δ Arietis ...	CF	3 3 50.06	7
	ε Tauri.....	G	4 20 39.53	7		ζ Arietis ...	CF	3 7 4.08	6
	Moon.....	G	4 29 20.90	I 7		Moon.....	CF	3 19 29.94	I 7
	π Tauri.....	G	5 11 5.21	7		η Tauri.....	CF	3 39 23.10	7
	β Tauri.....	G	5 17 40.50	7		A' Tauri.....	CF	3 56 38.43	7
6	π Tauri.....	CF	5 11 5.30	7					
	β Tauri.....	CF	5 17 40.62	7	1863.				
	Moon.....	CF	5 24 45.03	II 7	Jan. 1	A' Tauri.....	T	3 56 38.39	7
	χ' Orionis ...	CF	5 46 18.68	7		Moon.....	T	4 11 52.87	I 7
	η Geminorum	CF	6 5 38.81	7		α Tauri.....	T	4 28 6.13	7
7	η Geminorum	W	6 6 38.95	6		τ Tauri.....	T	4 34 4.07	7
	Moon.....	W	6 17 30.64	II 7	2	τ Tauri.....	CF	4 34 4.11	7
	γ Geminorum	W	6 29 50.13	7		Moon.....	CF	5 4 51.09	I 7
	ζ Geminorum	W	6 56 1.06	7		ζ Tauri.....	CF	5 29 30.25	7
8	γ Geminorum	CF	6 29 50.07	7		χ' Orionis ...	CF	5 46 19.02	7
	ζ Geminorum	CF	6 56 1.14	7	4	Moon.....	G	6 50 3.77	I 7
	Moon.....	CF	7 9 13.33	II 6		Moon.....	G	6 52 14.24	II 7
	68 Geminorum	CF	7 25 49.38	7		λ Geminorum	G	7 10 15.70	7
	γ Geminorum	CF	7 38 13.52	7		κ Geminorum	G	7 36 13.18	7
10	η Cancri ...	CF	8 24 48.75	7	5	λ Geminorum	CF	7 10 15.74	7
	δ Cancri	CF	8 36 55.62	7		κ Geminorum	CF	7 36 13.09	7
	Moon.....	CF	8 48 29.40	II 5		Moon.....	CF	7 43 16.97	II 7
	ω Leonis ...	CF	9 21 8.73	7		ζ Cancri ...	CF	8 4 23.67	7
	10 Leonis ...	CF	9 30 0.03	7		d' Cancri ...	CF	8 15 33.55	7
11	10 Leonis ...	G	9 30 0.06	4	6	ζ Cancri ...	G	8 4 23.80	6
	Moon.....	G	9 36 26.60	II 7		d' Cancri ...	G	8 15 33.51	7
28	Moon.....	T	0 48 1.51	I 7		Moon.....	G	8 32 56.40	II 7
29	Moon.....	T	1 37 42.57	I 7		α Cancri ...	G	8 51 1.81	7
	α Arietis ...	T	1 59 29.12	7		κ Cancri ...	G	9 0 21.73	7
	θ Arietis ...	T	2 10 32.49	7	8	ο Leonis ...	G	9 33 52.44	7
30	α Arietis ...	T	1 59 29.07	7		π Leonis ...	G	9 53 0.52	7
	θ Arietis ...	T	2 10 32.39	7		Moon.....	G	10 8 58.73	II 7
	Moon.....	T	2 28 5.55	I 7		30 Sextantis.	G	10 23 19.23	5
	δ Arietis ...	T	3 3 50.12	7		36 Sextantis.	G	10 38 7.80	7
	ζ Arietis ...	T	3 7 4.10	6					

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1863— cont.			h m s		1863— cont.			h m s	
Jan. 9	30 Sextantis.	G	10 23 19.25	7	Feb. 5	43 Leonis ...	CF	10 15 52.91	7
	36 Sextantis.	G	10 38 7.86	7		ρ Leonis ...	CF	10 25 38.37	7
	Moon.....	G	10 56 29.44	II 7		Moon.....	CF	10 41 46.13	II 7
	ϵ Leonis ...	G	11 23 20.74	7		ϕ Leonis ...	CF	11 9 44.29	7
	ν Leonis ...	G	11 29 57.81	7		ϵ Leonis ...	CF	11 23 21.33	7
10	ν Leonis ...	W	11 29 57.84	7	8	ψ Virginis..	W	12 47 16.14	7
	Moon.....	W	11 44 45.52	II 7		γ Virginis..	W	13 0 45.52	7
	χ Virginis..	W	12 32 12.00	6		Moon.....	W	13 11 12.87	II 7
13	Moon.....	G	14 24 4.93	II 7		85 Virginis..	W	13 38 14.81	7
14	Moon.....	G	15 24 48.88	II 7		89 Virginis..	W	13 42 28.04	7
15	Moon.....	G	16 29 28.81	II 7	9	85 Virginis..	CF	13 38 14.76	5
26	Moon.....	G	2 9 47.40	I 7		89 Virginis..	CF	13 42 27.98	7
27	Moon.....	G	3 1 23.99	I 7		Moon.....	CF	14 5 34.46	II 7
	η Tauri.....	G	3 39 22.87	7		α^2 Libræ	CF	14 43 20.14	7
28	Moon.....	CF	3 53 41.64	I 7	11	Moon.....	CF	16 4 27.47	II 6
	α Tauri.....	CF	4 28 5.89	7		α Scorpii ...	CF	16 21 2.09	7
	τ Tauri.....	CF	4 34 3.85	7	25	Moon.....	G	4 26 9.19	I 7
30	β Tauri.....	CF	5 17 40.71	7	26	Moon.....	CF	5 19 16.89	I 7
	ζ Tauri.....	CF	5 29 30.13	7		χ^1 Orionis...	CF	5 46 18.69	7
	Moon.....	CF	5 39 24.69	I 7		η Geminorum	CF	6 6 38.67	7
	η Geminorum	CF	6 6 39.17	7					
	μ Geminorum	CF	6 14 43.09	7	27	Moon.....	IF	6 11 57.16	I 7
Feb. 2	γ Geminorum	W	7 38 14.25	7	28	ξ Geminorum	G	6 37 38.34	7
	ι Cancri ...	W	7 49 15.41	7		Moon.....	G	7 3 46.96	I 7
	Moon.....	W	8 13 55.99	I 7		68 Geminorum	G	7 25 49.92	7
	δ Cancri ...	W	8 36 56.57	7		γ Geminorum	G	7 38 14.07	7
	α Cancri ...	W	8 51 2.24	7	Mar. 1	68 Geminorum	CF	7 25 49.81	7
3	δ Cancri ...	CF	8 36 56.50	7		γ Geminorum	CF	7 38 14.08	7
	Moon.....	CF	9 3 12.84	I 7		Moon.....	CF	7 54 34.27	I 7
4	Moon.....	G	9 53 43.57	II 7		θ Cancri ...	CF	8 23 49.52	7
	43 Leonis ...	G	10 15 52.74	7		δ Cancri ...	CF	8 36 56.49	7
	ρ Leonis ...	G	10 25 38.33	7					

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1863— cont.			h m s		1863— cont.			h m s	
Mar. 2	θ Cancri ...	W	8 23 49.62	7	Mar. 28	ζ Geminorum	IF	6 56 0.99	7
	δ Cancri ...	W	8 36 56.59	7		λ Geminorum	IF	7 10 15.21	7
	Moon.....	W	8 44 20.24	I 7		Moon.....	IF	7 33 40.45	I 7
	κ Cancri ...	W	9 0 22.24	7		μ^2 Cancri ...	IF	7 59 44.34	7
	ω Leonis ...	W	9 21 10.84	7		ζ Cancri ...	IF	8 4 23.49	7
					29	μ^2 Cancri ...	G	7 59 44.29	7
3	κ Cancri ...	G	9 0 22.30	7		ζ Cancri ...	G	8 4 23.49	7
	ω Leonis ...	G	9 21 9.94	7		Moon.....	G	8 23 30.42	I 7
	Moon.....	G	9 33 19.34	I 7		α Cancri ...	G	8 51 2.03	7
	π Leonis ...	G	9 53 1.25	7		κ Cancri ...	G	9 0 22.08	7
	A Leonis ...	G	10 0 40.76	7	Apr. 1	44 Leonis ...	G	10 18 4.60	7
4	π Leonis ...	CF	9 53 1.15	7		ρ Leonis ...	G	10 25 38.48	7
	A Leonis ...	CF	10 0 40.70	7		Moon.....	G	10 49 54.62	I 7
	Moon.....	CF	10 21 58.88	I 7		ϕ Leonis ...	G	11 9 44.76	7
	c Leonis ...	CF	10 53 41.29	7		v Leonis ...	G	11 29 59.02	7
	ρ^3 Leonis ...	CF	10 59 57.60	7	4	61 Virginis..	G	13 11 17.63	7
5	c Leonis ...	IF	10 53 41.39	7		α Virginis..	G	13 18 1.85	7
	ρ^3 Leonis ...	IF	10 59 57.75	7		Moon.....	G	13 28 1.60	II 7
	Moon.....	IF	11 13 2.28	II 3	7	δ Scorpii ...	G	15 52 17.33	6
	e Leonis ...	IF	11 23 21.79	7		β^1 Scorpii ...	G	15 57 31.69	7
	v Leonis ...	IF	11 29 58.92	7		Moon.....	G	16 28 43.83	II 7
7	χ Virginis..	IF	12 32 13.43	7	25	3 Cancri ...	G	7 52 58.06	7
	ψ Virginis..	IF	12 47 16.73	7		Moon.....	G	8 2 48.33	I 7
	Moon.....	IF	12 54 44.79	II 4		δ Cancri ...	G	8 36 55.94	7
	α Virginis..	IF	13 18 1.31	7		60 Cancri ...	G	8 48 28.68	7
	λ Virginis..	IF	13 25 47.96	7	26	δ Cancri ...	G	8 36 55.77	7
12	θ Ophiuchi.	G	17 13 37.88	7		60 Cancri ...	G	8 48 28.64	7
	σ^2 Ophiuchi.	G	17 23 5.45	7		Moon.....	G	8 51 34.25	I 7
	Moon.....	G	17 51 40.66	II 7		λ Leonis ...	G	9 24 39.06	7
	λ Sagittarii	G	18 19 32.45	6	27	σ Leonis ...	G	9 33 52.40	7
27	Moon.....	CF	6 42 40.80	I 7		λ Leonis ...	W	9 24 39.00	7
	ζ Geminorum	CF	6 56 1.04	7		σ Leonis ...	W	9 33 52.42	7
	λ Geminorum	CF	7 10 15.34	7		Moon.....	W	9 39 36.89	I 7
						π Leonis ...	W	9 53 0.65	7
						α Leonis ...	W	10 1 6.80	7

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1863— cont.			h m s		1863— cont.			h m s	
Apr. 28	α Leonis ...	G	10 1 6.78	7	May 26	48 Leonis ...	CF	10 27 41.34	7
	Moon.....	G	10 27 37.37	I 7		34 Sextantis	CF	10 35 35.04	7
	ρ^1 Leonis ...	G	10 54 52.99	7		Moon.....	CF	10 54 49.34	I 7
	ϕ Leonis ...	G	11 9 44.49	7		ϕ Leonis ...	CF	11 9 44.16	7
						ν Leonis ...	CF	11 29 58.59	7
29	ρ^1 Leonis ...	W	10 54 53.06	7					
	ϕ Leonis ...	W	11 9 44.57	7	27	ϕ Leonis ...	IF	11 9 43.25	4
	Moon.....	W	11 16 25.43	I 7		ν Leonis ...	IF	11 29 58.58	7
	ν Leonis ...	W	11 29 58.92	7		Moon.....	IF	11 43 24.35	I 7
	B.A.C. 4006.	W	11 44 4.95	7		η Virginis...	IF	12 26 45.60	7
						χ Virginis...	IF	13 32 13.61	7
30	ν Leonis ...	CF	11 29 58.84	7					
	B.A.C. 4006.	CF	11 44 5.12	7	28	η Virginis...	G	12 26 45.52	7
	Moon.....	CF	12 6 55.76	I 7		χ Virginis...	G	12 32 13.53	7
	χ Virginis ..	CF	12 32 13.75	7		Moon.....	G	12 34 11.34	I 5
	ψ Virginis ..	CF	12 47 17.01	7		58 Virginis...	G	13 10 19.84	7
						α Virginis...	G	13 18 1.94	7
May 3	α^2 Libræ ...	W	14 43 21.85	4	30	89 Virginis...	G	13 42 29.30	7
	Moon.....	W	14 59 12.88	II 7		λ Virginis...	G	14 11 45.53	7
	κ Libræ ...	W	15 34 7.06	7		Moon.....	G	14 26 11.02	I 6
						ι^1 Libræ	G	15 4 28.80	7
4	κ Libræ ...	CF	15 34 6.87	7		ζ^1 Libræ	G	15 20 35.87	6
	Moon.....	CF	16 2 50.69	II 6					
	α Scorpii ...	CF	16 21 4.53	7	June 3	μ^1 Sagittarii	G	18 5 38.26	5
	τ Scorpii ...	CF	16 27 25.31	7		λ Sagittarii	G	18 19 35.06	7
						Moon.....	G	18 50 50.99	II 7
8	Moon.....	IF	20 18 16.04	II 7		ρ^1 Sagittarii	G	19 13 47.27	7
						f Sagittarii	G	19 38 25.74	7
9	θ Capricorni	G	20 58 16.90	7					
	ν Aquarii...	G	21 2 9.94	7	6	Moon.....	G	21 52 6.62	II 7
	Moon.....	G	21 15 31.27	II 7		θ Aquarii...	G	22 9 38.86	7
	ξ Aquarii...	G	21 30 29.47	7		γ Aquarii...	G	22 14 37.43	7
	λ Capricorni	G	21 39 11.46	7					
25	π Leonis ...	W	9 53 0.29	7	7	θ Aquarii...	CF	22 9 38.83	6
	α Leonis ...	W	10 1 6.44	6		γ Aquarii...	CF	22 14 37.42	7
	Moon.....	W	10 7 25.45	I 7		Moon.....	CF	22 46 2.58	II 6
	48 Leonis ...	W	10 27 41.27	7		γ Piscium ..	CF	23 10 6.14	7
	34 Sextantis	W	10 35 35.20	7		κ Piscium ..	CF	23 19 56.84	7

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1863— cont.			h m s		1863— cont.			h m s	
June 24	B.A.C. 4006.	CF	11 44 4.51	7	July 5	γ Piscium..	G	23 10 7.02	7
	Moon.....	CF	12 12 39.08	I 7		Moon.....	G	23 19 21.60	II 7
	ψ Virginis...	CF	12 47 16.55	7		ϵ Piscium..	G	23 32 57.29	7
27	λ Virginis...	W	14 11 45.37	7		ω Piscium..	G	23 52 19.62	7
	α^2 Libræ	W	14 43 21.81	7	24	λ Virginis...	IF	14 11 45.15	7
	Moon.....	W	14 56 3.04	I 7		ϵ Libræ	IF	14 16 6.66	7
	θ Libræ	W	15 46 5.68	5		Moon.....	IF	14 31 58.04	I 7
	δ Scorpil...	W	15 52 18.21	7		α^2 Libræ	IF	14 43 11.55	7
28	θ Libræ	W	15 46 5.61	7	25	ϵ^1 Libræ	IF	15 4 28.67	7
	δ Scorpil...	W	15 52 18.28	7		α^2 Libræ	CF	14 43 21.53	7
	Moon.....	W	15 59 59.69	I 7		ϵ^1 Libræ	CF	15 4 28.59	7
	σ Scorpil...	W	16 12 56.17	7		Moon.....	CF	15 31 7.31	I 7
	α Scorpil...	W	16 21 5.08	7		σ Scorpil...	CF	16 12 56.04	7
29	σ Scorpil...	G	16 12 56.23	7	26	σ Scorpil...	W	16 12 56.14	7
	α Scorpil...	G	16 21 5.06	7		α Scorpil...	W	16 21 4.91	7
	Moon.....	G	17 6 25.73	I 7		Moon.....	W	16 34 6.32	I 7
	58 Ophiuchi.	G	17 35 17.79	7		A Ophiuchi (1st*)	W	17 7 0.04	7
	μ^1 Sagittarii	G	18 5 38.61	7		θ Ophiuchi.	W	17 13 40.32	7
30	58 Ophiuchi.	CF	17 35 17.71	7	28	μ^1 Sagittarii	G	18 5 38.63	6
	μ^1 Sagittarii	CF	18 5 38.63	7		λ Sagittarii	G	18 19 35.60	7
	Moon.....	CF	18 14 16.17	I 7		Moon.....	G	18 46 27.66	I 7
	σ Sagittarii	CF	18 56 32.69	7		δ Sagittarii	G	19 9 41.59	7
	π Sagittarii	CF	19 1 41.21	7		ρ^1 Sagittarii	G	19 13 48.08	7
July 1	σ Sagittarii	IF	18 56 32.75	7	30	Moon.....	IF	20 57 21.92	II 7
	π Sagittarii	IF	19 1 41.26	7		β Aquarii...	IF	21 24 24.87	7
	Moon.....	IF	19 23 35.55	II 7	31	β Aquarii...	CF	21 24 24.90	7
	α^2 Capricorni	IF	20 10 31.05	7		ξ Aquarii...	CF	21 30 31.64	7
	ρ Capricorni	IF	20 21 6.77	7		Moon.....	CF	21 57 18.60	II 6
2	α^2 Capricorni	G	20 10 31.09	7	Aug. 3	γ Aquarii...	CF	22 14 38.66	7
	ρ Capricorni	G	20 21 6.70	7		η Aquarii...	CF	22 28 22.89	7
	Moon.....	G	20 27 35.24	II 7		δ Piscium..	CF	0 13 36.83	7
	μ Aquarii...	G	20 45 19.61	7		45 Piscium..	CF	0 18 42.04	7
	ν Aquarii...	G	21 2 11.52	7		Moon.....	CF	0 43 30.72	II 7
						η Piscium..	CF	1 24 12.75	7
						101 Piscium..	CF	1 28 30.60	7

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1863— cont.			h m s		1863— cont.			h m s	
Aug. 4	η Piscium ..	G	1 24 12.91	7	Sept. 3	ι Tauri.....	G	3 32 39.70	7
	ι Piscium ..	G	1 28 30.69	7		η Tauri.....	G	3 39 24.83	7
	Moon.....	G	1 36 50.30	II 7		Moon.....	G	3 56 49.93	II 7
	β Arietis ...	G	1 47 8.14	7		α Tauri.....	G	4 28 7.14	7
	ι Arietis ...	G	2 3 5.76	7		τ Tauri.....	G	4 34 5.16	7
24	δ Sagittarii	CF	17 51 29.96	6	4	α Tauri.....	IF	4 28 7.38	7
	Moon.....	CF	18 16 25.55	I 7		Moon.....	IF	4 51 5.10	II 7
	π Sagittarii	CF	19 1 41.41	7		ζ Tauri.....	IF	5 29 30.93	7
	ρ Sagittarii	CF	19 13 47.96	7	5	Moon.....	G	5 44 33.67	II 7
25	π Sagittarii	G	19 1 41.44	3	23	α^2 Capricorni	IF	20 10 31.16	7
	ρ Sagittarii	G	19 13 47.91	7		ρ Capricorni	IF	20 21 6.85	7
	Moon.....	G	19 20 38.29	I 7		Moon.....	IF	20 57 45.20	I 7
	α^2 Capricorni	G	20 10 31.40	7		β Aquarii...	IF	21 24 24.98	4
	ρ Capricorni	G	20 21 7.12	7	24	β Aquarii...	G	21 24 24.93	7
26	α^2 Capricorni	IF	20 10 31.49	7		ξ Aquarii...	G	21 30 31.72	7
	ρ Capricorni	IF	20 21 7.07	7		Moon.....	G	21 55 48.14	I 7
	Moon.....	IF	20 23 34.04	I 7		η Aquarii...	G	22 28 23.27	7
	ϵ Aquarii...	IF	20 40 19.79	7	25	ζ Aquarii...	CF	22 21 50.85	7
28	θ Aquarii...	IF	22 9 40.54	7		η Aquarii...	CF	22 28 23.32	7
	γ Aquarii...	IF	22 14 39.13	7		Moon.....	CF	22 52 24.52	I 7
	Moon.....	IF	22 23 5.23	I 7		κ Piscium ..	CF	23 19 58.97	7
	ϕ Aquarii...	IF	23 7 17.82	7		ι Piscium ..	CF	23 32 58.71	7
	ρ Aquarii...	IF	23 12 21.98	7	Oct. 1	δ Tauri.....	CF	4 15 6.63	7
31	δ Piscium ..	G	0 41 38.74	5		ϵ Tauri.....	CF	4 20 41.62	7
	ζ Piscium ..	G	1 6 38.58	7		Moon.....	CF	4 28 7.41	II 7
	Moon.....	G	1 12 43.39	II 7		ϵ Tauri.....	CF	4 54 59.04	7
	η Piscium ..	G	1 24 13.62	7	2	ι Tauri.....	CF	4 59 46.55	7
	ι Piscium ..	G	1 32 21.79	7		ϵ Tauri.....	IF	4 54 58.91	7
Sept. 2	π Arietis ...	CF	2 41 42.85	7		ι Tauri.....	IF	4 59 46.45	7
	ϵ Arietis ...	CF	2 51 27.05	7		Moon.....	IF	5 22 47.63	II 7
	Moon.....	CF	3 2 11.31	II 7		χ^1 Orionis...	IF	5 46 20.33	7
	ι Tauri.....	CF	3 32 39.59	7		η Geminorum	IF	6 6 40.51	7
	η Tauri.....	CF	3 39 24.61	7	22	Moon.....	T	22 30 13.48	I 7
						γ Piscium ..	T	23 10 8.08	7
						κ Piscium ..	T	23 19 58.90	7

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1863— cont.			h m s		1863— cont.			h m s	
Oct. 24	ω Piscium ..	T	23 52 21.05	7	Dec. 18	Moon.....	CF	0 37 17.26	I 7
	Moon.....	T	0 18 55.99	I 7		ϵ Piscium ..	CF	0 55 54.47	7
	δ Piscium ..	T	0 41 39.17	7		ζ Piscium ..	CF	1 6 39.16	7
	ϵ Piscium ..	T	0 55 54.81	7					
25	δ Piscium ..	T	0 41 39.23	7	20	β Arietis ...	G	1 47 9.78	7
	ϵ Piscium ..	T	0 55 54.79	7		η Arietis ...	G	2 5 13.31	7
	Moon.....	T	1 13 29.75	I 7		Moon.....	G	2 23 48.62	I 7
Nov. 17	Moon.....	IF	21 17 52.60	I 7		δ Arietis ...	G	3 3 53.41	7
22	η Piscium ..	W	1 24 14.27	7	22	ζ Arietis ...	G	3 7 7.34	7
	ϵ Piscium ..	W	1 38 14.53	7		α Tauri.....	IF	3 56 41.93	7
	Moon.....	W	1 47 3.32	I 7		Moon.....	IF	4 13 0.42	I 7
	β Arietis ...	W	2 29 15.01	7	23	δ Tauri.....	G	4 43 27.66	7
	β Arietis ...	W	2 37 35.06	7		ϵ Tauri.....	G	4 55 0.53	7
25	ϵ Tauri.....	CF	4 20 42.87	7		Moon.....	G	5 7 54.34	I 7
	α Tauri.....	CF	4 28 9.10	7		χ^1 Orionis ..	G	5 46 22.30	7
	Moon.....	CF	4 35 14.24	II 7		χ^1 Orionis ...	G	5 55 53.05	7
	γ Orionis ...	CF	5 1 57.09	7	24	χ^1 Orionis ...	CF	5 46 22.34	7
	γ Tauri.....	CF	5 19 16.26	7		χ^1 Orionis ...	CF	5 55 53.23	7
26	γ Orionis ...	G	5 1 57.02	7		Moon.....	CF	6 2 4.89	I 7
	γ Tauri.....	G	5 19 16.29	7		μ Geminorum	CF	6 14 46.43	7
	Moon.....	G	5 30 28.35	II 7		γ Geminorum	CF	6 29 53.67	7
	η Geminorum	G	6 6 42.15	7	25	μ Geminorum	W	6 14 46.35	5
	μ Geminorum	G	6 14 45.95	7		γ Geminorum	W	6 29 53.70	7
27	μ Geminorum	CF	6 14 46.00	7		Moon.....	W	6 57 2.15	II 7
	Moon.....	CF	6 24 24.85	II 7		δ Geminorum	W	7 25 53.14	7
	ζ Geminorum	CF	6 56 4.33	7		γ Geminorum	W	7 38 17.29	5
	λ Geminorum	CF	7 10 18.28	7	27	12 Cancri ...	CF	8 2 8.58	3
28	ζ Geminorum	G	6 56 4.31	7		29 Cancri ...	CF	8 21 4.05	7
	λ Geminorum	G	7 10 18.28	7		Moon	CF	8 37 1.70	II 7
	Moon.....	G	7 16 31.40	II 7		α Cancri ...	CF	8 51 4.80	4
	γ Geminorum	G	7 38 16.37	7		κ Cancri ...	CF	9 0 24.66	7
	μ^2 Cancri ...	G	7 59 46.96	7	28	α Cancri ...	G	8 51 4.70	7
29	γ Geminorum	W	7 38 16.37	7		κ Cancri ...	G	9 0 24.67	7
	Moon.....	W	8 6 37.17	II 7		Moon.....	G	9 24 26.47	II 7
	29 Cancri ...	W	8 21 3.11	7		4 Sextantis.	G	9 43 27.17	7
						π Leonis ...	G	9 53 3.15	6

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1864.			h m s		1864— cont.			h m s	
Jan. 17	ε Arietis ...	G	2 51 28.17	7	Jan. 30	α Virginis ..	W	13 18 3.62	7
	Moon.....	G	3 1 40.09	I 7		λ Virginis ..	W	13 25 50.22	7
	η Tauri.....	G	3 39 26.40	7		Moon.....	W	13 52 16.31	II 7
						κ Virginis ..	W	14 5 40.23	7
18	η Tauri.....	CF	3 39 26.58	7		λ Virginis ..	W	14 11 46.84	7
	33 Tauri.....	OF	3 49 2.37	7	Feb. 15	ε Tauri.....	G	4 20 42.69	7
	Moon.....	CF	3 56 6.75	I 7		Moon.....	G	4 33 1.74	I 7
	δ ¹ Tauri.....	CF	4 15 7.80	7		ε Tauri.....	G	4 55 0.13	7
	ε Tauri.....	CF	4 20 42.77	7		μ Tauri.....	G	4 59 26.79	7
					16	ε Tauri.....	W	4 55 0.19	7
19	ε Tauri.....	IF	4 20 42.98	7		μ Tauri.....	W	4 59 26.90	5
	Moon.....	IF	4 50 32.84	I 7		Moon.....	W	5 27 20.66	I 7
	ζ Tauri.....	IF	5 29 33.53	7		ν Orionis ...	W	5 59 50.63	7
	126 Tauri.....	IF	5 33 28.59	7	17	Moon.....	CF	6 20 29.55	I 7
						ζ Geminorum	CF	6 56 4.98	7
20	ζ Tauri.....	G	5 29 33.54	7		λ Geminorum	CF	7 10 18.94	7
	126 Tauri.....	G	5 33 28.58	7	18	ζ Geminorum	IF	6 56 5.06	7
	Moon.....	G	5 44 28.52	I 7		Moon.....	IF	7 12 9.30	I 6
	μ Geminorum	G	6 14 46.60	7		6 Canis Min.	IF	7 22 16.01	7
	γ Geminorum	G	6 29 53.80	7		68 Geminorum	IF	7 25 53.34	7
22	ζ Geminorum	CF	6 56 5.51	7	19	6 Canis Min.	G	7 22 16.12	7
	δ Geminorum	CF	7 12 2.59	7		68 Geminorum	G	7 25 53.31	7
	Moon.....	CF	7 28 42.23	I 7		Moon.....	G	8 2 12.35	I 7
	12 Cancri ...	CF	8 1 9.09	7		29 Cancri ...	G	8 21 4.70	7
24	κ Cancri ...	G	9 0 25.26	7		ε ¹ Cancri ...	G	8 29 46.12	7
	Moon.....	G	9 8 31.47	II 7	20	29 Cancri ...	W	8 21 4.62	7
	ο Leonis ...	G	9 33 55.82	7		ε ¹ Cancri ...	W	8 29 45.97	7
	18 Leonis ...	G	9 39 5.87	7		Moon.....	W	8 50 42.75	I 7
26	43 Leonis ...	IF	10 15 56.02	7		π ² Cancri ...	W	9 7 45.86	7
	Moon.....	IF	10 41 18.17	II 7		ξ Leonis ...	W	9 24 39.43	7
28	β Virginis ..	IF	11 43 38.83	7	21	π ² Cancri ...	W	9 7 45.80	7
	10 Virginis ..	IF	12 2 45.39	7		ξ Leonis ...	W	9 24 39.40	7
	Moon.....	IF	12 13 49.20	II 7		Moon.....	W	9 37 58.28	I 7
	χ Virginis ..	IF	12 32 15.85	7		π Leonis ...	W	9 53 4.17	7
	ψ Virginis ..	IF	12 47 18.96	7		14 Sextantis.	W	9 59 43.28	7

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1864— cont.			h m s		1864— cont.			h m s	
Feb. 24	ν Leonis ...	G	11 30 1'68	7	Mar. 18	ζ Cancri ...	CF	8 4 27'05	7
	β Virginis ..	G	11 43 39'17	7		η Cancri ...	CF	8 24 52'98	7
	Moon.....	G	11 59 15'06	II 6		Moon.....	CF	8 33 52'78	I 6
	q Virginis ..	G	12 26 48'08	7		α Cancri ...	CF	8 51 5'52	7
25	q Virginis ..	W	12 26 48'37	7	19	κ Cancri ...	IF	9 0 25'21	7
	χ Virginis ..	W	12 32 16'31	7		Moon.....	IF	9 21 29'86	I 7
	Moon.....	W	12 46 55'18	II 7		π Leonis ...	IF	9 53 4'08	7
	α Virginis ..	W	13 18 4'28	7		A Leonis ...	IF	10 0 43'82	7
	h Virginis ..	W	13 25 50'75	7	20	A Leonis ...	W	10 0 43'73	7
26	α Virginis ..	CF	13 18 4'17	7		Moon.....	W	10 8 13'45	I 7
	h Virginis ..	CF	13 25 50'89	7		30 Sextantis	W	10 23 23'00	7
	Moon.....	CF	13 36 21'02	II 7		36 Sextantis	W	10 38 11'75	7
	κ Virginis ..	CF	14 5 40'91	7	21	30 Sextantis	G	10 23 22'94	7
	λ Virginis ..	CF	14 11 47'54	7		36 Sextantis	G	10 38 11'58	7
127	κ Virginis ..	W	14 5 40'96	7		Moon.....	G	10 54 37'87	I 7
	λ Virginis ..	W	14 11 47'50	7		ϕ Leonis ...	G	11 9 47'72	7
	Moon.....	W	14 28 8'15	II 7		ν Leonis ...	G	11 30 1'93	7
	α^2 Libræ	W	14 43 23'78	7	22	ν Leonis ...	IF	11 30 1'88	7
	ι^1 Libræ	W	15 4 30'55	7		Moon.....	IF	11 41 21'85	I 7
29	Moon.....	G	16 20 14'31	II 7		13 Virginis ..	IF	12 11 44'82	7
	η Ophiuchi	G	17 2 36'30	7		q Virginis ..	IF	12 26 48'68	7
	θ Ophiuchi	G	17 13 41'08	7	23	13 Virginis ..	CF	12 11 44'84	7
Mar. 15	Moon.....	IF	6 1 29'96	I 7		q Virginis ..	CF	12 26 48'67	7
	μ Geminorum	IF	6 14 45'85	7		Moon.....	CF	12 31 10'13	II 7
	γ Geminorum	IF	6 29 53'30	7		50 Virginis ..	CF	13 2 41'56	7
16	μ Geminorum	G	6 14 45'94	7		58 Virginis ..	CF	13 10 22'57	7
	γ Geminorum	G	6 29 53'23	7	24	Moon..	W	13 20 31'92	II 7
	Moon.....	G	6 54 7'79	I 7		85 Virginis ..	W	13 38 18'79	7
	λ Geminorum	G	7 10 18'62	7		89 Virginis ..	W	13 42 32'08	7
	68 Geminorum	G	7 25 52'96	7	27	ζ^1 Libræ	W	15 20 38'16	7
17	λ Geminorum	W	7 10 18'57	7		γ Libræ	W	15 27 58'04	7
	68 Geminorum	W	7 25 52'88	7		Moon.....	W	16 2 37'55	II 7
	Moon.....	W	7 44 52'18	I 7		σ Scorpii ...	W	16 12 58'23	7
	ζ Cancri ...	W	8 4 26'93	7		α Scorpii ...	W	16 21 7'07	7
	η Cancri ...	W	8 24 52'92	7					

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1864— cont.			h m s		1864— cont.			h m s	
Mar. 28	σ Scorpii ...	CF	16 12 58.34	7	Apr. 21	α Virginis ..	IF	13 18 4.96	7
	α Scorpii ...	CF	16 21 7.02	7		h Virginis ..	IF	13 25 51.65	7
	Moon.....	CF	17 1 20.52	II 7		Moon.....	IF	13 50 58.15	I 7
	θ Ophiuchi. CF	17 13 42.00	7			λ Virginis ..	IF	14 11 48.53	7
	δ Ophiuchi. CF	17 18 6.34	7			z Libræ	IF	14 16 10.07	7
Apr. 12	μ Geminorum IF	6 14 45.46	6		22	λ Virginis ..	G	14 11 48.41	7
	Moon.....	IF	6 32 53.61	I 7		z Libræ	G	14 16 9.95	7
	ζ Geminorum IF	6 56 4.10	7			Moon.....	G	14 47 7.54	II 7
	λ Geminorum IF	7 10 18.21	7			γ Libræ	G	15 27 58.48	7
13	ζ Geminorum CF	6 56 4.24	7			κ Libræ	G	15 34 10.20	7
	λ Geminorum CF	7 10 18.35	7		23	γ Libræ	W	15 27 58.62	7
	Moon.....	CF	7 25 4.03	I 7		κ Libræ	W	15 34 10.18	7
	g Geminorum CF	7 38 16.80	6			Moon.....	W	15 43 48.41	II 7
14	g Geminorum W	7 38 16.55	7			ν Scorpii ...	W	16 4 8.93	7
	ζ Cancri ...	W	8 4 26.48	7		σ Scorpii ...	W	16 12 58.96	7
	Moon.....	W	8 15 5.34	I 7	24	Moon.....	G	16 42 47.28	II 7
	39 Cancri ...	W	8 32 18.91	7		η Ophiuchi. G	17 2 37.66	7	
	δ Cancri ...	W	8 36 59.15	7		θ Ophiuchi. G	17 13 42.72	7	
16	α Leonis ...	IF	9 33 55.52	7	25	η Ophiuchi. CF	17 2 37.84	7	
	18 Leonis ...	IF	9 33 5.76	7		θ Ophiuchi. CF	17 13 42.75	7	
	Moon.....	IF	9 50 17.44	I 7		Moon.....	CF	17 43 11.46	II 5
	45 Leonis ...	IF	10 20 30.30	7		μ^1 Sagittarii CF	18 5 40.60	6	
	ρ Leonis ...	IF	10 25 41.30	7		λ Sagittarii CF	18 19 37.51	6	
18	p^2 Leonis ...	G	11 0 0.46	7	May 13	κ Cancri ...	G	9 0 24.47	7
	ϕ Leonis ...	G	11 9 47.44	7		h Leonis ...	G	9 24 41.88	7
	Moon.....	G	11 23 13.96	I 7		Moon.....	G	9 31 16.48	I 7
	β Virginis ..	G	11 43 39.33	7		π Leonis ...	G	9 53 3.40	7
	10 Virginis ..	G	12 2 45.92	7		A Leonis ...	G	10 0 43.23	7
19	β Virginis ..	W	11 43 39.32	7	16	ν Leonis ...	G	11 30 1.56	7
	10 Virginis ..	W	12 2 45.90	7		Moon.....	G	11 50 35.91	I 7
	Moon.....	W	12 10 39.66	I 7		g Virginis ..	G	12 26 48.60	7
20	χ Virginis ..	CF	12 32 16.83	7		χ Virginis ..	G	12 32 16.53	7
	Moon.....	CF	12 59 42.14	I 7					
	α Virginis ..	CF	13 18 4.96	7					
	h Virginis ..	CF	13 25 51.66	6					

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1864— cont.			h m s		1864— cont.			h m s	
May 17	η Virginis...	IF	12 26 48.49	7	June 18	σ Scorpii ...	CF	16 12 59.70	7
	χ Virginis...	IF	12 32 16.57	7		α Scorpii ...	CF	16 21 8.49	7
	Moon.....	IF	12 38 39.19	I 7		Moon.....	CF	16 50 26.43	I 7
	ζ Virginis...	IF	13 2 41.35	7		η Ophiuchi.	CF	17 2 38.70	7
	α Virginis...	IF	13 18 4.88	7		θ Ophiuchi.	CF	17 13 43.79	7
20	α^2 Libræ ...	G	14 43 25.02	7	19	η Ophiuchi.	G	17 2 38.47	7
	ϵ^1 Libræ ...	G	15 4 32.34	7		θ Ophiuchi.	G	17 13 43.71	7
	Moon.....	G	15 18 4.63	I 7		Moon.....	G	17 55 50.73	II 7
	β^1 Scorpii ...	G	15 57 35.62	7		γ^1 Sagittarii	G	18 17 19.08	7
	ν Scorpii ...	G	16 4 9.46	7		B.A.C. 6279.	G	18 21 30.66	7
21	β^1 Scorpii ...	IF	15 57 35.74	7	20	γ^1 Sagittarii	CF	18 17 19.13	7
	ν Scorpii ...	IF	16 4 9.38	7		B.A.C. 6279.	CF	18 21 30.76	7
	Moon.....	IF	16 19 33.42	II 7		Moon.....	CF	18 59 23.96	II 7
	η Ophiuchi.	IF	17 2 38.28	7		ϵ^2 Sagittarii	CF	19 34 48.07	7
	θ Ophiuchi.	IF	17 13 43.29	7		f Sagittarii	CF	19 38 29.44	7
23	δ Sagittarii	CF	17 51 33.33	7	21	f Sagittarii	G	19 38 29.43	7
	Moon.....	CF	18 23 6.12	II 3		Moon.....	G	20 1 57.87	II 7
	ϵ^2 Sagittarii	CF	18 49 40.55	5		ϵ Aquarii...	G	20 40 22.04	7
	ϕ Sagittarii	CF	18 56 35.36	7	22	β Capricorni	CF	20 13 25.77	7
24	ϕ Sagittarii	CF	18 56 35.40	6		ϵ Aquarii...	CF	20 40 22.08	7
	Moon.....	CF	19 24 43.82	II 6		Moon.....	CF	21 2 33.46	II 7
	α^2 Capricorni	CF	20 10 33.22	7		β Aquarii...	CF	21 24 27.13	7
	ρ Capricorni	CF	20 21 8.92	7		ξ Aquarii...	CF	21 30 33.80	7
25	α^2 Capricorni	G	20 10 33.26	7	24	ζ Aquarii...	CF	22 21 52.73	4
	ρ Capricorni	G	20 21 8.94	7		η Aquarii...	CF	22 28 24.85	6
	Moon.....	G	20 24 46.48	II 7		Moon.....	CF	22 57 21.97	II 6
	μ Aquarii...	G	20 45 21.66	7		ι Piscium...	CF	23 32 59.90	7
	ν Aquarii ..	G	21 2 13.53	7	July 12	α Virginis...	CF	13 18 4.39	7
June 10	Moon.....	CF	9 59 6.04	I 7		δ Virginis...	CF	13 25 51.19	7
	γ^1 Leonis ...	CF	10 20 29.64	7		Moon.....	CF	13 35 33.15	I 7
	ρ Leonis ...	CF	10 25 40.65	7		κ Virginis...	CF	14 5 41.60	7
17	ζ^1 Libræ ...	G	15 20 39.03	7		λ Virginis...	CF	14 11 48.33	7
	γ Libræ ...	G	15 27 58.97	7	13	κ Virginis...	G	14 5 41.52	7
	Moon.....	G	15 49 32.59	I 7		λ Virginis..	G	14 11 48.24	7
	σ Scorpii ...	G	16 12 59.69	7		Moon.....	G	14 27 12.03	I 7
	α Scorpii ...	G	16 21 8.48	7		α^2 Libræ ...	G	14 43 24.77	7

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1864— cont.			h m s			1864— cont.			h m s		
July 14	α^2 Libræ ...	CF	14 43 24.73		7	July 22	γ Piscium...	G	23 10 10.33		7
	ϵ^1 Libræ ...	CF	15 4 32.10		7		κ Piscium...	G	23 20 0.97		7
	Moon.....	CF	15 22 9.21	I	7		Moon.....	G	23 32 51.19	II	7
	δ Scorpil ...	CF	15 52 21.48		5		ω Piscium...	G	23 52 23.09		7
	β^1 Scorpil ...	CF	15 57 35.59		7		d Piscium...	G	0 13 39.45		7
15	δ Scorpil ...	CF	15 52 21.71		7	23	ω Piscium...	CF	23 52 23.00		7
	Moon.....	CF	16 20 36.16	I	7		d Piscium...	CF	0 13 39.31		7
16	η Ophiuchi.	G	17 2 38.69		7		Moon.....	CF	0 29 15.85	II	7
	Moon.....	G	17 22 7.58	I	7		ϵ Piscium...	CF	0 55 56.23		7
	μ^1 Sagittarii	G	18 5 42.16		6		e Piscium...	CF	1 1 24.90		7
17	\dagger Sagittarii	G	17 51 33.72		7	Ang. 9	Moon.....	CF	14 7 12.56	I	7
	μ^1 Sagittarii	G	18 5 42.05		7		α^2 Libræ ...	CF	14 43 24.49		7
	Moon.....	G	18 25 38.01	I	7	10	Moon.....	G	14 59 27.17	I	7
	ξ^2 Sagittarii	G	18 49 41.27		7		γ Libræ ...	G	15 27 58.62		7
	π Sagittarii	G	19 1 44.82		7	14	15 Sagittarii	G	18 7 10.23		7
18	ξ^2 Sagittarii	G	18 49 41.16		7		21 Sagittarii	G	18 17 19.15		7
	π Sagittarii	G	19 1 44.71		7		Moon.....	G	18 56 58.05	I	7
	Moon.....	G	19 29 36.59	I	7		d Sagittarii	G	19 9 44.88		7
	α^2 Capricorni	G	20 10 34.33		7		ρ^1 Sagittarii	G	19 13 51.26		7
	ρ Capricorni	G	20 21 10.16		7	15	d Sagittarii	CF	19 9 44.90		7
19	α^2 Capricorni	CF	20 10 34.49		7		ρ^1 Sagittarii	CF	19 13 51.23		7
	ρ Capricorni	CF	20 21 10.11		7		Moon.....	CF	20 0 4.86	I	7
	Moon.....	CF	20 35 0.87	II	7		τ^2 Capricorni	CF	20 31 44.25		7
	β Aquarii...	CF	21 24 27.65		7		ϵ Aquarii...	CF	20 40 22.74		6
20	β Aquarii...	G	21 24 27.66		7	16	τ^2 Capricorni	G	20 31 44.23		7
	ξ Aquarii...	G	21 30 34.42		7		ϵ Aquarii...	G	20 40 22.84		7
	Moon.....	G	21 36 11.53	II	7		Moon.....	G	21 2 32.47	I	7
	θ Aquarii...	G	22 9 42.95		7		β Aquarii...	G	21 24 28.02		7
	γ Aquarii...	G	22 14 41.44		7		ξ Aquarii...	G	21 30 34.89		7
21	θ Aquarii...	CF	22 9 43.06		7	18	ζ Aquarii...	G	22 21 53.87		7
	γ Aquarii...	CF	22 14 41.60		7		η Aquarii...	G	22 28 26.17		7
	Moon.....	CF	22 35 21.82	II	7		Moon.....	G	23 5 55.24	II	7
	γ Piscium...	CF	23 10 10.45		7		κ Piscium...	G	23 20 1.56		7
	κ Piscium...	CF	23 20 1.06		7		ϵ Piscium...	G	23 33 1.35		7

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1864— cont.			h m s		1864— cont.			h m s	
Aug. 19	κ Piscium...	CF	23 20 1'53	7	Sept. 19	ϵ Arietis ...	CF	2 51 30'59	7
	ι Piscium...	CF	23 33 1'26	7		δ Arietis ...	CF	3 3 55'61	7
	Moon.....	CF	0 4 40'82	II 7		Moon.....	CF	3 31 56'79	II 7
	δ Piscium...	CF	0 41 41'47	7		γ Tauri.....	CF	4 12 7'21	7
	ϵ Piscium...	CF	0 55 56'96	7		ϵ Tauri.....	CF	4 20 44'57	7
21	η Piscium...	CF	1 24 16'47	7	Oct. 4	Moon.....	G	15 18 34'63	I 7
	\circ Piscium...	CF	1 38 16'51	6					
	Moon.....	CF	2 0 34'87	II 6	5	β^1 Scorpii ...	G	15 57 34'60	7
	π Arietis ...	CF	2 41 45'99	7		ν Scorpii ...	G	16 4 8'39	7
	ϵ Arietis ...	CF	2 51 29'89	7		Moon.....	G	16 13 16'57	I 7
22	π Arietis ...	G	2 41 45'96	7		η Ophiuchi.	G	17 2 37'71	7
	ϵ Arietis ...	G	2 51 30'10	6	9	ϵ^2 Sagittarii	G	19 34 47'76	7
	Moon.....	G	2 58 11'80	II 7		f Sagittarii	G	19 38 29'15	6
	17 Tauri.....	G	3 36 51'68	7		Moon.....	G	20 5 50'98	I 4
	η Tauri.....	G	3 39 27'68	7		ϵ Aquarii...	G	20 40 22'35	7
Sept. 9	η Ophiuchi.	G	17 2 38'07	7		μ Aquarii...	G	20 45 22'57	6
	θ Ophiuchi.	G	17 13 43'03	7	10	ϵ Aquarii...	CF	20 40 22'36	7
	Moon.....	G	17 28 55'63	I 7		μ Aquarii...	CF	20 45 22'65	7
	λ Sagittarii	G	18 19 38'53	7		Moon.....	CF	21 4 34'40	I 7
13	μ Aquarii...	CF	20 45 23'03	7	11	β Aquarii...	G	21 24 27'56	7
	ν Aquarii...	CF	21 2 15'11	7		ξ Aquarii...	G	21 30 34'32	7
	Moon.....	CF	21 31 43'04	I 7		Moon.....	G	22 2 57'91	I 7
	θ Aquarii...	CF	22 9 43'47	7		γ Aquarii...	G	22 14 41'85	7
	σ Aquarii...	CF	22 23 31'10	7		η Aquarii...	G	22 28 26'08	7
14	θ Aquarii...	G	22 9 43'42	7	14	δ Piscium...	CF	0 41 42'10	7
	σ Aquarii...	G	22 23 30'98	7		Moon.....	CF	0 59 3'60	I 7
	Moon.....	G	22 31 53'37	I 7		η Piscium...	CF	1 24 17'17	7
	γ Piscium...	G	23 10 11'22	7		\circ Piscium...	CF	1 38 17'32	7
15	γ Piscium...	CF	23 10 11'15	7	16	38 Arietis ...	CF	2 37 37'82	7
	κ Piscium...	CF	23 20 1'90	7		π Arietis ...	CF	2 41 47'21	7
	Moon.....	CF	23 33 54'99	II 7		Moon.....	CF	3 2 4'27	II 7
	ω Piscium...	CF	23 52 24'04	7		η Tauri.....	CF	3 39 29'09	7
	δ Piscium...	CF	0 13 40'49	7		Δ^1 Tauri.....	CF	3 56 44'30	7

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1864— cont.			h m s		1864— cont.			h m s	
Nov. 7	ν Aquarii...	G	21 2 14.41	7	Dec. 7	ε Piscium..	G	23 33 1.18	7
	ξ Aquarii...	G	21 30 34.05	7		ω Piscium..	G	23 52 23.60	7
	Moon.....	G	21 41 40.95	I 7		Moon.....	G	0 11 31.98	I 7
	θ Aquarii...	G	22 9 43.01	7		δ Piscium..	G	0 41 41.83	7
	γ Aquarii...	G	22 14 41.43	7		ε Piscium..	G	0 55 57.40	7
8	θ Aquarii...	CF	22 9 42.78	7	8	δ Piscium..	CF	0 41 41.88	7
	Moon.....	CF	22 37 58.22	I 7		ε Piscium..	CF	0 55 57.53	7
	γ Piscium...	CF	23 10 10.85	7		Moon.....	CF	1 7 29.20	I 7
	κ Piscium...	CF	23 20 1.69	7		η Piscium..	CF	1 24 17.08	7
9	γ Piscium...	G	23 10 10.78	7		ο Piscium..	CF	1 38 17.34	7
	κ Piscium...	G	23 20 1.60	7	9	ο Piscium..	G	1 38 17.41	7
	Moon.....	G	23 34 19.41	I 7		Moon.....	G	2 4 38.33	I 7
	ω Piscium...	G	23 52 23.84	7		31 Arietis ...	G	2 29 17.89	7
	δ Piscium...	G	0 13 40.34	7		38 Arietis ...	G	2 37 38.05	7
11	ε Piscium...	CF	0 55 57.68	7	10	31 Arietis ...	JS	2 29 18.07	7
	ζ Piscium...	CF	1 6 42.30	7		38 Arietis ...	JS	2 37 38.16	7
	Moon.....	CF	1 29 31.05	I 7		Moon.....	JS	3 3 7.85	I 7
	ι Arietis ...	CF	1 50 0.39	7		η Tauri.....	JS	3 39 29.74	7
12	B.A.C. 632 ..	G	1 56 20.18	7	11	η Tauri.....	W	3 39 29.91	7
	Moon.....	G	2 29 0.81	I 7		Moon.....	W	4 2 36.93	I 7
	ε Arietis ...	G	2 51 31.72	7		ε Tauri.....	W	4 20 46.15	7
	δ Arietis ...	G	3 3 56.51	7		α Tauri.....	W	4 28 12.54	7
17	ζ Geminorum	G	6 56 7.13	6	12	α Tauri.....	W	4 28 12.58	7
	δ Geminorum	G	7 12 4.56	7		Moon.....	W	5 2 15.67	I 7
	Moon.....	G	7 25 8.76	II 7		ζ Tauri.....	W	5 29 36.80	7
	8 Cancri ...	G	7 57 34.11	7		χ ¹ Orionis ...	W	5 46 25.46	7
	ζ Cancri ...	G	8 4 28.86	7	13	Moon.....	G	6 3 15.51	II 7
Dec. 5	Moon.....	G	22 20 58.81	I 7		μ Geminorum	G	6 14 49.63	7
	β Piscium ..	G	22 57 0.91	7		γ Geminorum	G	6 29 56.64	7
	γ Piscium ..	G	23 10 10.55	7	14	μ Geminorum	CF	6 14 49.50	7
6	β Piscium ..	CF	22 57 0.88	7		γ Geminorum	CF	6 29 56.73	7
	γ Piscium ..	CF	23 10 10.47	7		Moon.....	CF	6 59 59.41	II 7
	Moon.....	CF	23 16 15.84	I 7		63 Geminorum	CF	7 19 45.21	7
	ω Piscium ..	CF	23 52 23.57	7		68 Geminorum	CF	7 25 55.88	7

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1864— cont.			h m s		1865— cont.			h m s	
Dec. 17	ω Leonis ...	JS	9 21 14.95	7	Jan. 12	ζ Cancri ...	G	8 4 30.37	7
	Moon.....	JS	9 34 41.18	II 5		29 Cancri ...	G	8 21 7.38	7
	π Leonis ...	JS	9 53 5.79	7		Moon.....	G	8 24 27.58	II 7
	A Leonis ...	JS	10 0 45.36	7		α Cancri ...	G	8 51 8.11	7
18	π Leonis ...	CF	9 53 5.78	7		κ Cancri ...	G	9 0 28.03	7
	A Leonis ...	CF	10 0 45.35	7	13	κ Cancri ...	JS	9 0 28.21	7
	Moon.....	CF	10 21 55.34	II 7		Moon.....	JS	9 14 41.86	II 7
1865.						σ Leonis ...	JS	9 33 58.67	7
Jan. 4	δ Piscium ..	G	0 41 41.65	3		π Leonis ...	JS	9 53 6.50	7
	Moon.....	G	0 51 0.44	I 7	14	Moon.....	G	9 53 6.59	7
	η Piscium ..	G	1 24 16.84	4		45 Leonis ...	G	10 2 56.84	II 7
	σ Piscium ..	G	1 38 17.28	7		ρ Leonis ...	G	10 20 32.91	7
5	Moon.....	JS	1 47 3.99	I 7		45 Leonis ...	G	10 25 43.73	7
	ξ^1 Ceti	JS	2 5 52.13	7	15	45 Leonis ...	JS	10 20 32.87	7
	μ Ceti	JS	2 37 40.21	7		Moon.....	JS	10 49 43.99	II 7
6	μ Ceti	G	2 37 40.24	7		ϕ Leonis ...	JS	11 9 49.57	7
	Moon.....	G	2 43 59.20	I 7	17	η Virginis ..	JS	12 13 1.29	7
	ζ Arietis ...	G	3 7 10.44	7		Moon.....	JS	12 21 44.41	II 7
	f Tauri.....	G	3 23 26.94	7		θ Virginis ..	JS	13 2 58.95	7
7	f Tauri.....	JS	3 23 26.95	7	18	Moon.....	G	13 8 28.74	II 7
	Moon.....	JS	3 41 45.98	I 7		α Virginis ..	G	13 18 6.19	7
	ϵ Tauri.....	JS	4 20 46.20	7	Feb. 4	η Tauri.....	CF	3 39 29.58	7
	α Tauri.....	JS	4 28 12.56	7		Moon.....	CF	4 22 32.23	I 7
8	ϵ Tauri.....	G	4 20 46.18	7		τ Tauri.....	CF	4 34 10.70	7
	α Tauri.....	G	4 28 12.61	7	6	χ^1 Orionis ...	JS	5 46 25.49	7
	Moon.....	G	4 40 1.38	I 7		Moon.....	JS	6 16 17.44	I 7
	σ Tauri.....	G	5 19 33.96	7		ξ Geminorum	JS	6 37 45.13	7
	ζ Tauri.....	G	5 29 36.92	7		ζ Geminorum	JS	6 56 8.70	7
10	η Geminorum	G	6 6 46.08	7	7	ξ Geminorum	CF	6 37 44.96	7
	μ Geminorum	G	6 14 49.70	7		ζ Geminorum	CF	6 56 8.40	7
	Moon.....	G	6 34 47.59	I 7		Moon.....	CF	7 11 0.96	I 7
	δ Geminorum	G	7 12 5.84	7		1 Cancri ...	CF	7 49 21.85	7
11	δ Geminorum	JS	7 12 5.78	7		5 Cancri ...	CF	7 53 51.00	7
	Moon.....	JS	7 29 41.86	I 7					

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1865— cont.					1865— cont.				
Feb. 8	1 Cancri ...	G	^h 7 ^m 49 ^s 21.71	7	Mar. 2	Moon.....	G	^h 3 ^m 4 ^s 7.04	I 7
	5 Cancri ...	G	7 53 50.79	7		η Tauri.....	G	3 39 28.93	7
	Moon.....	G	8 3 45.94	I 7					
	δ Cancri ...	G	8 37 2.99	7	3	η Tauri.....	G	3 39 28.90	7
						Moon.....	G	4 3 28.38	I 7
9	δ Cancri ...	CF	8 37 3.18	7		ϵ Tauri.....	G	4 20 45.42	7
	α Cancri ...	CF	8 51 8.53	7		α Tauri.....	G	4 28 11.83	7
	Moon.....	CF	8 54 27.00	I 7	4	ϵ Tauri.....	CF	4 20 45.41	7
	10 Leonis ...	CF	9 29 7.26	7		α Tauri.....	CF	4 28 11.71	7
	σ Leonis ...	CF	9 33 58.96	7		Moon.....	CF	5 2 1.15	I 7
					11	η Tauri.....	CF	5 24 19.47	7
10	σ Leonis ...	G	9 33 58.99	4					
	Moon.....	G	9 43 15.77	I 7	5	Moon.....	G	5 59 9.26	I 7
	Moon.....	G	9 45 20.29	II 7		μ Geminorum	G	6 14 49.42	7
	45 Leonis ...	G	10 20 33.34	7		γ Geminorum	G	6 29 56.52	7
	ρ Leonis ...	G	10 25 44.28	7	6	μ Geminorum	JS	6 14 49.43	7
						γ Geminorum	JS	6 29 56.57	5
12	ρ^1 Leonis ...	JS	11 6 53.07	7		Moon.....	JS	6 54 22.84	I 7
	ϕ Leonis ...	JS	11 9 50.10	6		δ Geminorum	JS	7 12 5.43	7
	Moon.....	JS	11 18 59.41	II 7		ϵ_1 Geminorum	JS	7 18 45.45	7
	ν Leonis ...	JS	11 30 4.41	7	7	δ Geminorum	JS	7 12 5.55	7
	β Virginis ..	JS	11 43 42.03	7		ϵ_1 Geminorum	JS	7 19 45.48	7
						Moon.....	JS	7 47 26.58	I 7
13	ν Leonis ...	CF	11 30 4.39	7		d^1 Cancri ...	JS	8 15 40.12	7
	β Virginis ..	CF	11 43 41.94	7		29 Cancri ...	JS	8 21 7.34	7
	Moon.....	CF	12 5 0.75	II 7	8	d^1 Cancri ...	CF	8 15 40.10	7
	f Virginis ..	CF	12 29 52.32	7		29 Cancri ...	CF	8 21 7.49	7
	28 Virginis ..	CF	12 35 1.03	7		Moon.....	CF	8 38 21.13	I 7
						α Cancri ...	CF	8 51 8.39	7
14	f Virginis ..	G	12 29 52.43	7		π^2 Cancri ...	CF	9 7 48.77	7
	28 Virginis ..	G	12 35 1.01	7	9	α Cancri ...	G	8 51 8.33	7
	Moon.....	G	12 51 20.77	II 7		π^2 Cancri ...	G	9 7 48.78	7
	θ Virginis ..	G	13 2 59.71	7		Moon.....	G	9 27 21.24	I 7
	α Virginis ..	G	13 18 6.96	7		π Leonis ...	G	9 53 7.08	7
						α Leonis ...	G	10 1 13.19	7
15	θ Virginis ..	CF	13 2 59.78	7					
	α Virginis ..	CF	13 18 6.87	7					
	Moon.....	CF	13 38 38.65	II 7					

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1865— cont.			h m s		1865— cont.			h m s	
Mar. 10	π Leonis ...	CF	9 53 7.01	7	Apr. 6	B.A.C. 3336.	G	9 39 4.73	7
	α Leonis ...	CF	10 1 13.10	7		π Leonis ...	G	9 53 6.81	7
	Moon.	CF	10 14 51.43	I 7		Moon.	G	9 59 29.63	I 7
	55 Leonis ...	CF	10 48 48.15	7		43 Leonis ...	G	10 15 58.76	7
	ϵ Leonis ...	CF	10 53 47.37	7		ρ Leonis ...	G	10 25 44.24	7
12	ν Leonis ...	CF	11 30 4.77	7	7	43 Leonis ...	CF	10 15 58.70	7
	β Virginis..	CF	11 43 42.21	7		ρ Leonis ...	CF	10 25 44.28	7
	Moon.	CF	11 49 30.75	II 7		Moon.	CF	10 46 8.40	I 7
14	θ Virginis..	CF	13 3 0.25	7		ϕ Leonis ...	CF	11 9 50.37	7
	α Virginis..	CF	13 18 7.47	7		79 Leonis ...	CF	11 17 9.14	7
	Moon.	CF	13 22 48.17	II 7	8	ϕ Leonis ...	G	11 9 50.40	7
	86 Virginis..	CF	13 38 47.49	7		79 Leonis ...	G	11 17 9.07	7
	94 Virginis..	CF	13 59 11.45	7		Moon.	G	11 32 13.42	I 7
15	86 Virginis..	G	13 38 47.47	7		β Virginis..	G	11 43 42.20	7
	94 Virginis..	G	13 59 11.48	7		η Virginis..	G	12 13 2.58	7
	Moon.	G	14 11 4.02	II 7	11	δ Virginis..	CF	13 25 54.69	7
	5 Libræ ...	G	14 38 33.83	7		Moon.	CF	13 55 17.80	II 7
	α^2 Libræ ...	G	14 43 27.10	7		λ Virginis..	CF	14 11 51.45	7
18	ω Ophiuchi.	JS	16 24 10.28	7		2 Libræ ...	CF	14 17 12.92	7
	Moon.	JS	16 46 48.89	II 7	12	λ Virginis..	G	14 11 51.49	7
	η Ophiuchi.	JS	17 2 40.01	7		2 Libræ ...	G	14 17 13.00	7
	ν Serpentis.	JS	17 13 16.00	7		Moon.	G	14 44 55.74	II 7
Apr. 2	μ Geminorum	CF	6 14 48.91	7		ϵ^1 Libræ ...	G	15 4 34.79	7
	Moon.	CF	6 35 14.13	I 7		ζ^1 Libræ ...	G	15 20 41.77	7
	δ Geminorum	CF	7 12 5.00	7	16	4 Sagittarii	G	17 51 35.42	7
3	ζ Geminorum	JS	6 56 7.39	7		μ^1 Sagittarii	G	18 5 43.59	7
	δ Geminorum	JS	7 12 5.00	7		Moon.	G	18 20 31.73	II 7
	Moon.	JS	7 29 54.76	I 7		π Sagittarii	G	19 1 45.95	7
	5 Cancri ...	JS	7 53 50.23	7	17	π Sagittarii	CF	19 1 46.60	5
	8 Cancri ...	JS	7 57 34.86	7		Moon.	CF	19 17 13.47	II 7
5	A ² Cancri ...	CF	8 39 33.74	3		g Sagittarii	CF	19 50 19.21	7
	α Cancri ...	CF	8 51 8.05	7		63 Sagittarii	CF	19 54 26.39	7
	Moon.	CF	9 11 37.72	I 7					
	B.A.C. 3336.	CF	9 39 4.73	7					
	π Leonis ...	CF	9 53 6.79	7					

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1865— cont.			h m s		1865— cont.			h m s	
May 1	Moon.....	G	8 2 9.33	I 7	May 9	κ Virginis ..	G	14 5 44.89	7
	ϵ^1 Cancri ...	G	8 29 47.88	7		λ Virginis ..	G	14 11 51.68	6
2	ϵ^1 Cancri ...	CF	8 29 47.87	7		Moon.....	G	14 25 36.74	I 7
	Moon.....	CF	8 53 37.17	I 7		α^2 Libræ ...	G	14 43 28.01	7
	δ Leonis ...	CF	9 24 44.93	7		ϵ^1 Libræ ...	G	15 4 35.13	7
	ϕ Leonis ...	CF	9 33 58.25	7	10	α^2 Libræ ...	CF	14 43 28.13	7
3	δ Leonis ...	G	9 24 44.94	7		ϵ^1 Libræ ...	CF	15 4 35.12	7
	ϕ Leonis ...	G	9 33 58.22	7		Moon.....	CF	15 18 58.00	II 7
	Moon.....	G	9 42 38.80	I 7		δ Scorpii ...	CF	15 52 24.65	7
	π Leonis ...	G	9 53 6.33	7		β^1 Scorpii ...	CF	15 57 38.69	7
	α Leonis ...	G	10 1 12.66	7	11	δ Scorpii ...	G	15 52 24.60	7
4	α Leonis ...	CF	10 1 12.49	7		Moon.....	G	16 12 11.17	II 7
	Moon.....	CF	10 29 55.28	I 7	30	Moon.....	G	9 22 59.55	I 7
	δ Leonis ...	CF	10 53 37.38	7		π Leonis ...	G	9 53 6.10	7
	ρ^1 Leonis ...	CF	11 6 53.13	7		α Leonis ...	G	10 1 12.16	7
5	δ Leonis ...	G	10 53 37.36	7	June 1	δ Leonis ...	JS	10 53 36.97	7
	ρ^1 Leonis ...	G	11 6 53.07	7		Moon.....	JS	10 58 39.45	I 7
	Moon.....	G	11 16 11.93	I 7		ν Leonis ...	JS	11 30 4.20	7
	ν Leonis ...	G	11 30 4.50	7	2	ϕ Leonis ...	CF	11 9 49.66	7
	β Virginis ..	G	11 43 42.12	7		ν Leonis ...	CF	11 30 4.24	7
6	ν Leonis ...	JS	11 30 4.42	7		Moon.....	CF	11 44 53.46	I 7
	β Virginis ..	JS	11 43 42.16	7		$\iota\phi$ Virginis ..	CF	12 2 48.41	7
	Moon.....	JS	12 2 13.82	I 7		η Virginis ..	CF	12 13 2.18	7
	η Virginis ..	JS	12 26 51.49	7	3	$\iota\phi$ Virginis ..	G	12 2 48.49	7
	χ Virginis ..	JS	12 32 19.44	7		η Virginis ..	G	12 13 2.21	7
7	η Virginis ..	G	12 26 51.47	6		Moon.....	G	12 31 8.67	I 7
	χ Virginis ..	G	12 32 19.47	7		48 Virginis ..	G	12 56 59.75	7
	Moon.....	G	12 48 44.56	I 7		θ Virginis ..	G	13 3 0.29	7
	α Virginis ..	G	13 18 7.83	7	4	θ Virginis ..	CF	13 3 0.34	7
	ι^2 Virginis ..	G	13 24 59.74	7		Moon.....	CF	13 18 10.60	I 7
8	α Virginis ..	CF	13 18 7.80	7		83 Virginis ..	CF	13 37 16.04	7
	ι^2 Virginis ..	CF	13 24 59.72	7		89 Virginis ..	CF	13 42 35.51	7
	Moon.....	CF	13 36 22.04	I 7					

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1865— cont.			h m s		1865— cont.			h m s	
June 5	83 Virginis ..	G	13 37 16.08		July 3	κ Virginis ..	CF	14 4 44.64	7
	89 Virginis ..	G	13 42 35.39			λ Virginis ..	CF	14 11 51.34	7
	Moon.....	G	14 6 40.67	I 7		Moon.....	CF	14 36 14.23	I 7
	α^2 Libræ ...	G	14 43 28.00	6	7	μ^1 Sagittarii	CF	18 5 45.30	7
6	5 Libræ ...	CF	14 38 34.54	7		Moon.....	CF	18 15 23.49	I 7
	α^2 Libræ ...	CF	14 43 28.06	7		π Sagittarii	CF	19 1 47.85	7
	Moon.....	CF	14 57 8.56	I 7		δ Sagittarii	CF	19 9 47.97	7
	ζ^1 Libræ ...	CF	15 20 42.21	7	11	β Aquarii...	CF	21 24 30.41	7
	γ Libræ ...	CF	15 28 1.83	7		λ Capricorni	CF	21 39 19.34	7
8	ν Scorpii ...	CF	16 4 12.74	7		Moon.....	CF	22 9 58.71	II 7
	σ Scorpii ...	CF	16 13 2.97	7		ζ Aquarii...	CF	22 21 55.98	7
	Moon.....	CF	16 44 44.05	I 7		η Aquarii...	CF	22 28 28.25	7
	η Ophiuchi.	CF	17 2 41.74	7	12	Moon.....	JS	23 6 13.22	II 3
9	η Ophiuchi.	JS	17 2 41.85	7		κ Piscium ..	JS	23 20 3.56	7
	ξ Serpentis.	JS	17 29 54.92	7		ι Piscium ..	JS	23 33 3.35	7
	Moon.....	JS	17 43 35.19	II 7	13	κ Piscium ..	G	23 20 3.64	7
	μ^1 Sagittarii	JS	18 5 45.08	7		Moon.....	G	0 2 8.88	II 7
	λ Sagittarii	JS	18 19 42.14	7		δ Piscium ..	G	0 13 41.88	7
11	π Sagittarii	G	19 1 47.28	7		δ Piscium ..	G	0 41 43.28	7
	ρ^1 Sagittarii	G	19 13 53.76	7	14	δ Piscium ..	G	0 13 41.87	7
	Moon.....	G	19 38 47.95	II 7		δ Piscium ..	G	0 41 43.43	7
	α^2 Capricorni	G	20 10 36.74	7		Moon.....	G	0 58 19.97	II 7
	ρ Capricorni	G	20 21 12.50	7		ν Piscium ..	G	1 34 26.71	7
14	θ Aquarii...	CF	22 9 44.93	7	15	\circ Piscium ..	G	1 38 18.30	7
	Moon.....	CF	22 27 39.72	II 7		Moon.....	JS	1 55 20.06	II 7
	γ Piscium ..	CF	23 10 12.05	7		ξ^2 Ceti	JS	2 21 1.11	7
30	β Virginis ..	CF	11 43 41.57	7	29	μ Ceti	JS	2 37 40.86	7
	10 Virginis ..	CF	12 2 48.23	7		α Virginis ..	JS	13 18 7.19	7
	Moon.....	CF	12 12 49.00	I 7		Moon... ..	JS	13 27 55.08	I 7
	ψ Virginis ..	CF	12 47 22.25	7		86 Virginis ..	JS	13 38 47.20	7
July 1	ψ Virginis ..	G	12 47 22.39	7	Aug. 1	κ Virginis ..	JS	14 5 44.18	7
	Moon.....	G	12 59 23.89	I 7		θ Libræ	JS	15 46 11.79	4
	α Virginis ..	G	13 18 7.49	7		Moon.....	JS	15 57 52.71	I 7
	λ Virginis ..	G	13 25 54.21	7		ψ Ophiuchi.	JS	16 16 15.80	7
						ω Ophiuchi.	JS	16 24 11.70	7

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1865— cont.			h m s		1865— cont.			h m s	
Aug. 2	ψ Ophiuchi.	JS	16 16 15.80	7	Aug. 31	4 Sagittarii	CF	17 51 36.50	7
	ω Ophiuchi.	JS	16 24 11.83	7		μ ¹ Sagittarii	CF	18 5 44.81	7
	Moon.....	JS	16 52 14.44	I 7		Moon.....	CF	18 19 36.20	I 7
	ξ Serpentis.	JS	17 29 55.09	7		ξ ¹ Sagittarii	CF	18 49 44.23	7
	ο Serpentis	JS	17 33 53.35	7	Sept. 1	ο Sagittarii	CF	18 56 39.27	7
3	ξ Serpentis.	CF	17 29 54.84	7		Moon.....	CF	19 17 14.04	I 7
	ο Serpentis.	CF	17 33 53.29	7		ε ² Sagittarii	CF	19 34 51.46	7
	Moon.....	CF	17 48 46.42	I 7		α ² Capricorni	CF	20 10 37.46	7
	μ ¹ Sagittarii	CF	18 5 45.41	7					
7	ν Aquarii...	JS	21 2 18.11	7	2	ε ² Sagittarii	JS	19 34 51.35	7
	β Aquarii...	JS	21 24 30.74	7		α ² Capricorni	JS	20 10 37.48	7
	Moon.....	JS	21 46 19.71	II 7		Moon.....	JS	20 15 44.81	I 7
	θ Aquarii...	JS	22 9 46.19	7		ε Aquarii...	JS	20 40 25.68	7
	σ Aquarii...	JS	22 23 33.56	7		μ Aquarii...	JS	20 45 25.99	7
9	γ Piscium ..	JS	23 10 13.55	7	5	η Aquarii...	JS	22 28 28.98	7
	κ Piscium ..	JS	23 20 4.21	7		φ Aquarii...	JS	23 7 23.50	7
	Moon.....	JS	23 42 12.33	II 7		Moon.....	JS	23 15 2.68	II 7
	ε ² Piscium ..	JS	23 55 39.34	7		ι Piscium ..	JS	23 33 4.37	7
	δ Piscium ..	JS	0 13 42.46	7		19 Piscium ..	JS	23 39 33.51	7
12	ξ ¹ Ceti	G	2 5 53.98	7	6	ι Piscium ..	CF	23 33 4.44	7
	ξ ² Ceti	G	2 21 1.99	7		19 Piscium ..	CF	23 39 33.48	7
	Moon..	G	2 36 10.73	II 7		Moon.....	CF	0 14 19.14	II 7
	δ Arietis ...	G	3 3 57.73	7		δ Piscium ..	CF	0 41 44.71	7
	f Tauri.....	G	3 23 28.07	7					
25	Moon.....	CF	13 10 16.54	I 7	8	ο Piscium ..	CF	1 38 19.69	7
29	β ¹ Scorpii ...	JS	15 57 38.33	7		ξ ¹ Ceti	CF	2 5 54.44	7
	ν Scorpii ...	JS	16 4 12.10	7		Moon.....	CF	2 14 15.22	II 7
	Moon.....	JS	16 29 2.10	I 7		μ Ceti	CF	2 37 42.44	7
	ν Serpentis.	JS	17 13 17.33	7	10	λ Tauri.....	CF	3 53 15.45	7
30	η Ophiuchi.	JS	17 2 41.29	7		Moon.....	CF	4 15 38.96	II 4
	ν Serpentis.	JS	17 13 17.13	7		α Tauri.....	CF	4 28 13.84	7
	Moon.....	JS	17 23 24.05	I 7		τ Tauri.....	CF	4 34 12.16	7
	4 Sagittarii	JS	17 51 36.44	7	11	Moon.....	JS	5 15 42.57	II 7
	μ ¹ Sagittarii	JS	18 5 44.93	7					

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed.	No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed.	No. of Wires.
1865— cont.			h m s			1865— cont.			h m s		
Sept. 12	χ^1 Orionis ...	CF	5 46 26.24		5	Oct. 6	ξ^1 Ceti	JS	2 5 55.00		7
	ν Orionis ...	CF	5 59 54.66		5		ξ^2 Ceti	JS	2 21 3.24		7
	Moon	CF	6 14 22.71	II	7		Moon	JS	2 46 45.77	II	7
	ζ Geminorum	CF	6 37 44.97		7		δ Arietis ...	JS	3 3 59.10		7
23	Moon	JS	14 29 18.07	I	7		f Tauri	JS	3 23 29.37		7
24	α^1 Libræ	CF	14 43 26.92		7	23	Moon	CF	16 45 5.09	I	7
	Moon	CF	15 18 44.67	I	7		η Ophiuchi.	CF	17 2 40.40		7
	δ Scorpii ...	CF	15 52 23.76		7		ξ Serpentis.	CF	17 29 53.79		7
	β^1 Scorpii ...	CF	15 57 37.82		7	27	α^2 Capricorni	CF	20 10 36.72		7
25	δ Scorpii ...	JS	15 52 23.73		7		Moon	CF	20 22 17.28	I	7
	Moon	JS	16 9 44.99	I	7		ϵ Aquarii...	CF	20 40 24.94		7
	α Scorpii ...	JS	16 21 10.70		7	28	ϵ Aquarii...	JS	20 40 25.07		7
27	θ Ophiuchi.	CF	17 13 46.13		7		μ Aquarii...	JS	20 45 25.27		7
	Moon	CF	17 56 32.56	I	7		Moon	JS	21 17 41.76	I	7
	21 Sagittarii	CF	18 17 21.56		7		ξ Aquarii...	JS	21 30 37.12		7
	24 Sagittarii	CF	18 25 41.81		7		θ Aquarii...	JS	22 9 45.86		7
28	Moon	JS	18 51 58.41	I	7	31	ι Piscium...	CF	23 33 4.27		7
	ϵ^2 Sagittarii	JS	19 34 50.99		7		ω Piscium...	CF	23 52 26.76		7
29	ν Sagittarii	CF	19 14 2.95		7		Moon	CF	0 8 22.69	I	7
	ϵ^2 Sagittarii	CF	19 34 51.07		7		δ Piscium...	CF	0 41 44.90		7
	Moon	CF	19 48 22.60	I	7		ϵ Piscium...	CF	0 56 0.48		7
	ρ Capricorni	CF	20 21 12.98		7	Nov. 1	δ Piscium...	G	0 41 44.96		7
30	ρ Capricorni	JS	20 21 12.96		7		ϵ Piscium...	G	0 56 0.61		7
	ϵ Aquarii...	JS	20 40 25.51		7		Moon	G	1 8 14.58	I	7
	Moon	JS	20 45 28.11	I	7		\circ Piscium...	G	1 38 20.32		7
	β Aquarii...	JS	21 24 30.55		7		ξ^1 Ceti	G	2 5 55.25		7
	ξ Aquarii...	JS	21 30 37.51		7	7	ζ Geminorum	G	6 56 10.19		7
Oct. 4	δ Piscium ...	JS	0 13 43.12		7		Moon	G	7 26 1.50	II	7
	Moon	JS	0 42 54.60	II	7		ζ Canori ...	G	8 4 31.87		6
	ζ Piscium ...	JS	1 6 44.72		6	15	Moon	G	13 59 16.67	II	7
5	ζ Piscium ...	CF	1 6 44.93		7	24	ϵ Aquarii...	CF	20 40 24.62		7
	ν Piscium ...	CF	1 34 28.55		7		Moon	CF	20 59 17.19	I	7
	Moon	CF	1 44 17.58	II	7		β Aquarii...	CF	21 24 29.85		7
	ξ^1 Ceti	CF	2 5 54.89		7						
	ξ^2 Ceti	CF	2 21 3.16		7						

Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.	Date.	Object.	Observer.	Observed R.A. of Star and Moon's Limb on the true Meridian.	Limb observed. No. of Wires.
1865— cont.			h m s		1865— cont.			h m s	
Nov. 25	β Aquarii...	JS	21 24 29.85	7	Dec. 2	ϵ Tauri.....	JS	4 20 49.25	7
	Moon.....	JS	21 53 30.29	I 7		α Tauri.....	JS	4 28 15.54	6
	θ Aquarii...	JS	22 9 45.53	7		Moon.....	JS	4 50 23.09	II 7
	γ Aquarii...	JS	22 14 44.05	7		ζ Tauri.....	JS	5 29 39.92	7
26	θ Aquarii...	CF	22 9 45.58	7		χ^1 Orionis ...	JS	5 46 28.32	7
	γ Aquarii...	CF	22 14 44.01	7					
	Moon.....	CF	22 47 57.11	I 7	4	μ Geminorum	CF	6 14 52.68	7
	γ Piscium...	CF	23 10 13.40	7		γ Geminorum	CF	6 29 59.52	7
	κ Piscium...	CF	23 20 4.04	7		Moon.....	CF	6 56 51.66	II 7
27	γ Piscium...	G	23 10 13.51	7		λ Geminorum	CF	7 10 24.72	7
	κ Piscium...	G	23 20 4.15	7		ϕ Geminorum	CF	7 25 58.66	7
	Moon.....	G	23 43 12.77	I 7	5	λ Geminorum	G	7 10 24.69	7
	δ Piscium...	G	0 13 42.93	7		ϕ Geminorum	G	7 25 58.68	7
28	ι Ceti	G	0 19 45.81	7		Moon.....	G	7 56 3.02	II 7
	Moon.....	G	0 39 57.54	I 7		39 Cancri ...	G	8 32 24.53	7
	ϵ Piscium...	G	0 56 0.35	7		δ Cancri ...	G	8 37 4.83	7
	ζ Piscium...	G	1 6 44.89	7	8	Moon.....	G	10 33 49.48	II 7
29	ϵ Piscium...	CF	0 56 0.20	7	28	μ Ceti	G	2 37 43.29	7
	ζ Piscium...	CF	1 6 45.04	7		δ Arietis ...	G	3 3 59.75	7
	Moon.....	CF	1 38 47.64	I 7		Moon.....	G	3 14 53.96	I 7
	ξ^1 Ceti	CF	2 5 55.31	7		λ Tauri.....	G	3 53 16.98	7
	ξ^2 Ceti	CF	2 21 3.44	7		A ¹ Tauri.....	G	3 56 48.24	7
Dec. 1	δ Arietis ...	G	3 3 59.86	7	29	λ Tauri.....	JS	3 53 17.04	7
	f Tauri.....	G	3 23 30.22	7		A ¹ Tauri.....	JS	3 56 48.33	7
	Moon.....	G	3 43 24.14	I 7		Moon.....	JS	4 17 4.69	I 7
	ϵ Tauri.....	G	4 20 49.10	7		α Tauri.....	JS	4 28 15.73	7
	α Tauri.....	G	4 28 15.58	7					

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